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TELEPHONE  
BAR 852  
NUMBER

# THE CHEMIST AND DRUGGIST

TELEGRAPHIC  
ADDRESS  
CHEMISTS LONDON

Chf Office:  
LONDON,  
42 Cannon St.  
E.C.

Established in

Branch Offices:  
MELBOURNE  
and  
SYDNEY.

**ENGLAND - 1859.**

**AUSTRALASIA - 1885.**

*Registered as a Newspaper.*

*[Registered for Foreign Transmission]*

Prix de l'abonnement:—The Chemist and Druggist  
une fois par semaine, et l'agenda du Chemist and  
Druggist une fois par an, 12.50 francs par an,  
franco.

Abonnementspreis:—The Chemist and Druggist  
einmal wöchentlich, und Notizkalender des  
Chemist and Druggist einmal im Jahre, 10 Mark  
jährlich, frei in's Haus geliefert.

Precio de suscripcion: The Chemist and Druggist,  
una vez por semana, y el Agenda del Chemist and  
Druggist una vez al año, 12.50 pesetas anuales  
franco.

No. 891. Vol. L.

MAY 15, 1897.

Subscription, 10s. per annum, including Diary, Post  
Free the World over. Single Copies, 4d. each;  
Winter and Summer Issues, 1s. each, Post Free.

**The Soap to please all, and leave a Profit to Retailer.**

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A Handsome Bust of the QUEEN given during months May and June.

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**LIVERPOOL.**

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**LONDON.**

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(REGISTERED),

— A Nourishing Meat & Malt Wine.

Strongly recommended by the Medical Faculty in all cases of weakened constitution, and particularly useful in cases of ladies  
whilst nursing, and delicate children, or in ailments where a stimulating—digestive—tonic—nutrient is indicated.

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## HOOPER'S SPARKLING SELTZER

2s. 6d. per dozen. Six dozen Carriage free.

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**NICKEL SALTS, ACIDS, AND ALL PLATING CHEMICALS**

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Specially Prepared for **PROCESS WORK.**

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BATTERSEA SQUARE.**

**BATTERSEA, S.W.**

**NEAREST STATION,  
OLD BATTERSEA STATION  
West London Extension Railway.**

# The Chemist & Druggist

## SUPPLEMENT

SATURDAY, MAY 15, 1897.

Businesses Wanted  
Businesses for Disposal  
Premises to Let  
Auction Sales

**ALSO EXCHANGE COLUMN.**  
For Bargains see last page of this Supplement.

Partnerships  
Situations Vacant  
Situations Wanted  
Miscellaneous

THE CIRCULATION OF THE SUPPLEMENT THIS WEEK EXCEEDS 14,000.

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

THE CIRCULATION OF . . .

# THE CHEMIST & DRUGGIST SUPPLEMENT

NEXT WEEK, MAY 22, 1897,

## WILL EXCEED 14,000,

This is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of THE CHEMIST AND DRUGGIST.

Take advantage of it by advertising your wants.

If you want a Business, or wish to sell one;

If you have a Situation vacant, or wish a Situation,

You cannot do better than advertise in this Supplement.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, May 20, at 5 p.m.; but send earlier if you can.

## CHEMISTS' TRANSFERS.

### MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

**VENDORS** have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.  
**PURCHASERS** are invited to forward a statement of their requirements, which will be notified in a register free of charge.  
**VALUATIONS** having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

**-£1,200.—LONDON, N.W.**—Good-class Business, Retail and Dispensing; returns present rate £1,200; the shop is handsomely fitted and stocked; modern house, on lease; price about £900.

**-£1,000.—LONDON (Suburb).**—Dispensing and Retail Business, situated in principal thoroughfare; returns, present rate, about £1,000 yearly, with good profits; commodious residence and small garden; price about £900.

**-£650.—ALDGATE (near).**—Old-established Business, situate in main thoroughfare; returns under manager £650; the shop is well fitted and stocked; good house, private entrance; offer wanted.

**-£3,500.—LONDON, N.W.**—Good-class Dispensing and Retail Business; returns between £3,000 and £3,500 yearly; net profit over £750; the shop is handsomely fitted and well stocked; commodious house, on lease; price about £3,000.

**-£1,000.—LONDON, N.E.**—Old-established Business; Retail, Prescribing, and Dispensing, with very good proprietary trade; returns £1,000; net profit £350; the shop is well fitted and stocked; price about £750.

**-£1,000.—LONDON, N.W.**—Must be sold; good-class Dispensing Business; returns about £1,000 yearly; handsomely-fitted pharmacy and commodious house; no reasonable offer refused; particulars on application.

**-£400.—LONDON, S.E. (death vacancy).**—Old-established Business, situate in market locality; returns present rate £400; can be largely increased by an energetic man; good house, on long lease; about £300 net red.

**8.—£1,000.—SOUTH OF ENGLAND.**—First-class Family and Dispensing Business; returns exceed £1,000 yearly, with good profits; well-fitted shop and good stock; capital residence, held on lease; price £900.

**9.—£1,200.—KENT.**—Well-established Business, situate in the High Street; returns between £1,100 and £1,200 yearly; net profit £300; intending investors, with about £700 at command, can have full particulars.

**10.—£600.—HOME COUNTY.**—Good-class Business, Retail and Dispensing; returns £600 yearly; the shop is well fitted and stocked; good house, on lease; the situation is one of the best in the town. Further particulars on application.

**11.—£600.—LANCASHIRE.**—Good-class Business, Retail, Prescribing, and Dispensing; returns between £550 and £600 per annum; net profit nearly £200; price £500, estimated value of stock and fixtures.

**12.—£650.—SURREY (Charming Locality).**—Mixed Business, with Post Office attached; returns exceed £650 with good profits; nicely-fitted shop, and capital stock; price £500.

**13.—£500.—BOURNEMOUTH (near).**—Illness cause of sale; old-established Business; Dispensing and Retail; returns present rate £500 yearly; has returned £1,000; the business is situate in the High Street; commanding position; price, valuation of stock and fixtures.

**14.—£800.—SOUTH COAST (Popular Watering-place).**—Good-class Business; Dispensing and Retail; returns last year nearly £800; well-fitted shop and capital working-stock; commodious house; lease will be granted; price £500.

Particulars of any of the above will be furnished on application.

**N.B.—NO CHARGE TO PURCHASERS.**

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.  
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

**SPECIAL NOTICE.**—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.

**ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.**

# F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

**BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.  
NO CHARGE TO BUYERS**

£800 returns.—**STAFFS**.—Exceptionally profitable Retail, with practically no opposition for miles; rent of house and shop under £20; price £550.

£700 returns.—**MIDLANDS**.—Good medium-class Retail; handsomely fitted shop; rent £30; with personal attention can be much improved; all sales entered in detail; price £375.

£750 returns.—**NOTTS**.—Good-class Family Retail, with good booking accounts; in present hands about half a century; younger man would find plenty of scope; good market town; large residence.

£750 returns.—**LANCS**.—Light General Retail, in principal street of large manufacturing town; large, well fitted, and attractive; now carried on as a Branch; valuation about £350.

£1,100 returns.—**MIDLANDS**.—Good-class Family Retail, in improving market town; good sale of own specialities; price about £850.

£620 returns.—**STAFFS** (Death vacancy).—Old-established concern; excellent position for up-to-date trade; energetic man could double returns at once; good house; price £500.

£950 returns.—**DEVONSHIRE**.—Light Retail, Dispensing, &c., in fine position of favourite resort; ample scope for man accustomed to good-class trade; price about £750, or valuation.

£900 returns.—**LONDON, N.**—Light Retail, Dispensing, and Prescribing; net profit £300; good house; lease; price £750.

£700 returns.—**LEICESTERSHIRE**.—Good-class family Retail, in pleasant market town; large and convenient house, good garden, vinery, &c.; short hours; price £550.

£900 returns.—**S. WALES**.—Light Cash Retail, Dispensing, Prescribing, and own Preparations; net profit £250; price £600.

Vendors of good businesses can be at once supplied with buyers by F. J. BRETT.

## VALUATIONS.

F. J. BRETT has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

# BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

1.—**DEVON (Coast)**.—Good-class Light Retail and Dispensing Business; returns £1,600 under management; profit £533; handsomely-fitted shop, well stocked; good house; price only £700.

2.—**SOUTH COAST**.—First-class Family Retail and Dispensing Business; returns £800; net profit £250; same hands 15 years; good residence; price £575 or offer.

3.—**WILTSHIRE**.—Mixed Retail, Dispensing, and Prescribing Business; double-fronted shop in excellent position; good house, garden stocked with fruit trees; price £600 or valuation.

4.—**NORFOLK**.—Retail, Dispensing and Agricultural Business; returns £1,200 under management; principal would do £2,000; stock and fixtures worth £700; garden and business premises; price £850.

5.—**SURREY**.—First-class residential locality; Light Retail and Dispensing Business; returns £2,500; entirely under management; on store principle; handsomely fitted and very heavily stocked; price £1,500.

6.—**HAMPSHIRE**.—Light Retail and Dispensing Business; returns £12 weekly under management; good house; shop is well situated for doing best-class trade; price £400.

7.—**GREAT YARMOUTH**.—Light Retail, Dispensing, and Prescribing Business; returns £800; handsome double-fronted shop, well fitted and stocked; good house; can be increased; price £600, or valuation.

8.—**YORKSHIRE**.—Light Retail and Prescribing Business; returns £400 under management; principal would do £600 at once; price valuation of stock and fixtures, £200 to £300.

9.—**LONDON W. (Suburb)**.—Light Retail and Dispensing Business; returns £1,400; net profit £450; same hands many years; good house; shop well fitted and stocked; price £1,000.

10.—**LONDON, S.W.**.—Unopposed Retail and Prescribing Business; returns £4 10s. weekly, can do £10; rent £40, let off part; good house; price only £65.

Particulars of any of the above and others free on application.

## NOTICE.

Gentlemen doing business through Messrs. Berdoe have the advantage of their 27 years' experience, during which time they have been solely engaged in selling and valuing Chemists' Businesses. All valuations personally conducted.

**NO CHARGE TO PURCHASERS.**

35 JEWRY ST., FENCHURCH ST., CITY.

60

# JUDD & MANNER

Chemists' Valuers Transfer Agents, & Accountants.  
76 CANNON STREET, LONDON, E.C.

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given.

Terms (moderate) on application.

**MIDLANDS (South)**.—A good old Country trade, with first-class residence and nice garden; returns nearly £900; net profit about 33 cent.; price £750; we strongly recommend this as a sound investment.

**ESSEX**.—Light Retail and Prescribing trade, to which Dentistry may be added with advantage; returns £950; price £800; first-rate house.

**HOME COUNTY**.—Family trade; returns £900; price £800; large and convenient premises, with large garden.

**CRYSTAL PALACE DISTRICT**.—Light Retail and Prescribing trade, under management of an Assistant; returning £2 weekly; profitable; rent £33; corner premises; price £300 or offer.

Full particulars of any of the above sent free on application.  
**VALUATIONS A SPECIALITY.**

# FERGUSON & OSBORN

PHARMACEUTICAL CHEMISTS,

CHEMISTS' VALUERS AND TRANSFER AGENTS.  
25 YEARS' PRACTICAL EXPERIENCE.

NO CHARGE TO PURCHASERS.

All VALUATIONS and STOCKTAKINGS are conducted personally by the Principals. Terms on application.

1.—**STAFFORDSHIRE**.—Light Retail, Dispensing and Prescribing (no heavy trade); net profit £200; price £600.

2.—**LONDON**.—Old-established Chemist's Business; corner position a busy thoroughfare; premises in thorough repair, inside and out; superb mahogany fixtures, and fair stock; price £125; personal applicants have first refusal.

3.—**BIRMINGHAM**.—Drug-store; sell everything connected with Drug-trade; long lease, at nominal rent; net profit £300; price £600; valuation.

4.—**CHANNEL ISLANDS**.—Mixed Retail, with Perfumery; old valuable connection for proprietary perfumes; large shop and house commanding position; net profit about £230; price £500; legal qualifications not necessary.

56 CHEAPSIDE, LONDON, E.C.  
(Next Door to Bow Church.)

# THOMAS TOMLINSON & SON

M.P.S.,

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.  
44 YEARS' EXPERIENCE.

Valuations Conducted with careful attention to details.

**BUSINESS WANTED**.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can upon being at once with all despatch put into communication with the buyers without publicity and the annoyance of answering "curious" applications. **No charge made unless Sale is effected.**

**BUSINESSES FOR DISPOSAL** of various classes, and amounts. Returns ranging from £200 to £4,000. Particulars given to bona fide applicants stating outline of requirements.

Have constant enquiries for REGISTERED ASSISTANTS.

Applicants introduced free.

**NO CHARGE TO PURCHASERS**

Telegraphic Address—"TOMTOM."

# BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**CARDIFF or Bristol**.—Wanted to purchase a Chemist's and Druggist's Business, in or near Cardiff or Bristol. State where situated, low price, rent, if any lease, class of trade, how long established, size of house and fullest particulars, to "Bixer," (119/18), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED**, small genuine London, Suburban or Country Business, turning about £400 a year; price about £200 or £250; must be good house attached, and low rent; objection to branch from business same town; no agents. "Western" (116/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## BUSINESSES FOR DISPOSAL

6d. for 50 words or less; 6d. for every 10 words beyond.

**LEEDS (near).**—Genuine Chemist's Business for Sale, in best position in large manufacturing town near Leeds; Retail and Prescribing; well-fitted and well stocked; returns £550, under management. Profitable; 25 good proprietaries; price £450; exceptional opportunity for qualified Chemist, who could double takings almost immediately; one in town of 23 000 inhabitants. Address, "Chemicus," Morley.

**LIVERPOOL.**—£250, to an immediate purchaser, well stocked old-established Business, on best side of busiest thoroughfare in Liverpool; 65 years in present family; good old family connection; a fortune to a really good Prescriber; continued ill-health necessitates sale; rent £110. "Line," c/o Messrs. Evans, Hanover Street, Liverpool.

**LANELLY.**—Splendid chance for energetic Welshman, but Welsh not absolutely necessary. Owing to ill-health and taking Dental Practice, Mr. Jones proposes selling his genuine good-class Mixed Business; well-fitted and well stocked; open early offers; only cash buyers who will afterwards buy on the Business dealt with; 10 years' lease to run; provable renewal; most convenient commodious premises; foremost position; personal attention returns easily doubled; with energetic work-trebled; fair Dispensing, Prescribing, Veterinary, Agricultural, Drugs, Medicines, Photographic, Tower Tea, Seeds, Patents, Proprietaries; Lock up attached pays one-third rent; please make previous appointment to view by letter.

**ONDON, S.W.**—£65; a rapidly-increasing Business in main road, S.W. district; open a few months only; now doing £4 10s. weekly; stable Retail and Prescribing; compelled to sell at once; satisfactory son; good house; rent £40; £30 is left to weekly tenant; a genuine gain for beginner. "Chemist," 184 Bridge Road, Battersea, S.W.

**ONDON.**—To be Let or Sold, as a going concern, fireproof Chemical, Metallurgical, and Electrical Laboratory and Factory; has basement of four floors, fitted with electric power and light; situated in central position in London; well adapted for Assaying and Scientific Research. Apply, Murphy, 36 Mount Stuart Square, Cardiff.

**ONDON (10 miles from).**—Light Retail and Dispensing Business for Sale; returns nearly £700; net profit £250; well-fitted shop, heavily stocked; large house; rent £65; genuine business, open to full investigation; price about £650. "Quinine" (120/10), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**ONDON, N.**—A Retail and Dispensing Business, in the best part of Canonbury; has been in present proprietor's hands for 20 years; long lease, can let off half rent if required. Apply, H., 12 Canonbury Place, Canonbury Square, N.

**ONDON SUBURB, N.E.**, main roads, price £120 and £250; doing £5 and £7 a week under management; rents £50; growing ready-money neighbourhoods; 6 and 8 roomed houses, latter with garden; also other doing £500 year, price £400. Address, A. B., c/o Mr. Tibbett, 2 High Road, Tottenham, London, N.E.

**ONDON, S.W.**—£170 or Valuation.—Profitable Light Retail and Prescribing Business, in an increasing and healthy suburb; returns weekly; rent £32, on lease; good house; to anyone seeking a small genuine business, where a good living is being made, this is a good chance. Suburb" (120/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**MIDDLESEX (within 10 miles of London);** an old-established Light Retail, Dispensing, and Prescribing Business; returns nearly £1,200; good profits, long lease, moderate rent; cause of sale, taking larger suburb; good house, large yard, side and back entrance; no agents. "Antirine" (117/40), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**PAIGINTON, DEVON.**—Light Retail and Prescribing Business for immediate Disposal; established 64 years by proprietor, now deceased; good shop and house, at low rental; rising district; season now coming on; price £200, including stock and fixtures. Apply by letter to Mr. F. W. Nicholson, Trustee, Paiginton.

**SOUTHEND-ON-SEA.**—Cash Retail; weekly returns £6 under management; rapidly increasing neighbourhood; season commencing; should be doing £10; rent £35; favourable lease, 20 years to run; owner has purchased larger business, 100 miles away; worth £200; no reasonable offer refused; exceptional opportunity for single man, as house readily lets at £20; part purchase-money can remain. "Chemist," 9 Hallway, Yarmouth.

**SOUTH WALES (rare chance).**—Light Retail, Dispensing, and Prescribing Business in fast developing seaport town in South Wales; handsome shop (fully stocked), fine window, best position, nice house, low rent, long lease, in fact every possible advantage a purchaser could wish for; returns £1,000; net profit £400; one Proprietary more than clears entire shop expenses, and public dispensing appointment clears about £2 weekly; vendor, desirous of retiring from trade, will accept reasonable offer. "Genuine" (119/27), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**STAFFORDSHIRE (North)** Market town; good-class Retail and Dispensing, very handsome fittings and well stocked; premises may be purchased with the business. For particulars, apply, L., c/o Messrs. Evans, Sons & Co., Hanover Street, Liverpool.

**STAFFORDSHIRE POTTERIES.**—Thoroughly genuine Retail Cash Business; main thoroughfare; splendid position; good living accommodation; low rent; 1½ years of lease to run; returns £760; price £600; immediate possession for cash. Full particulars to bona-fide buyers on application to "Drugs" (119/1), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**YORKSHIRE.**—Old-established Family and Dispensing Business, with Post office, house, and warehouse attached, for immediate Disposal, owing to ill-health; rent £19; no opposition; populous neighbourhood; returns £600; price £600. Apply, J. Ellis, Chemist, High Street, Heckmondwike.

**YORKSHIRE.**—For Disposal, old-established Business; in present hands 44 years, owner retiring; large shop and house, large warehouse and garden adjoining, and premises for carrying on either Retail or Wholesale, in large improving neighbourhood; only wants seeing to find a ready purchaser. Apply to William Pottage, Chemist, Beverley.

**ANY** gentleman seeking a bona-fide Country Drug Business, who is qualified, experienced in Extracting and Prescribing and will furnish references, can have particulars of an exceptionally good one for immediate disposal; last year's profits £257 net; all light-class Retail, own specialities, Prescribing and Dental work; thoroughly established, steady trade, roomy house, delightful surroundings; large district and scope; expenses light; few patents, short hours; price £500, £150 could remain; North-west county. "Safety" (119/23), c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**CHEMIST** and Druggist, with open Surgery; main road, near City; old-established; net profits £200 a year; valuable lease; goodwill, fixtures, and stock as it stands, only £300; letter only. M. B., 28 Pembury Road, Lower Clapton.

**£450** or offer; 25 miles south-west of London; unopposed Light Retail, Dispensing, and Prescribing Business; returns £600, and making a net profit of over £200 yearly; rent £70, on lease; excellent house and large garden; strictest investigation can be made. 121/1, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**£45** inclusive; Prescribing, Dispensing, Extracting, Retail; increasing, populous suburb (15,000); electric-tram, buses, rail, park, athletic ground; main thoroughfare; splendid position, right side; big plate-glass front and shop; good house; garden; rent £35, quarterly lease; immediate possession. 13 Albert Terrace, Stapleton Road, Bristol.

**£2,200** returns.—Good-class Family Drug Store in improving market town, North of England; doing present time, under manager, £2,200 yearly, with good profits; could be greatly extended under owner's supervision; this is an exceptional opportunity; sole reason for disposal ill-health of present owner; £1,750 or offers. Apply, 119 3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**A DISPENSER** in the South of Fug and, whose principals are declining dispensing, but who can depend on their prescription work, would like to hear of a qualified Chemist, with some capital, to open a joint business; climate suitable for a delicate man. Address, X. Y. Z., c/o Messrs. Mackey, Mackey & Co., 175 Grange Road, Bournemouth.

**PARTNERSHIP**—Half Share offered for £200 to qualified married Chemist holding Dental registration, and possessing sound references, in Branch doing £700 to £800 under Manager, and offering splendid opening for Dentistry; modern many-fitted pharmacy; good house; centre large seaport; artisan trade; sole ownership on equitable terms at end of partnership; must be a pushing, capable man. Apply, 118/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## APPRENTICESHIPS.

### RETAIL.

**KINGSTON-ON-THAMES.**—Apprentice wanted; must have passed Preliminary or equivalent; comfortable home; premium required. E. Whaley, Kingston-on-Thames.

**A PREPENTICE.**—Vacancy arises in good-class up-to-date Pharmacy for a well-educated youth; closed part of the day on Thursdays no Sunday duty; superior home; indoors moderate premium, outdoors no premium; also an Improver; London, N.E. Address, "Chemist," Hoincastle's, 61 Cheapside, E.C.

# TENDERS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

## SALE BY TENDER.

**F. J. BRETT**, of Leicester, is instructed to Sell by Tender, in one lot, as a going concern, the old-established Business well known as **LEGGETT'S DRUG STORES**, at 95 Boaler Street, Liverpool, including Stock and Fixtures at a small branch, 87 Farnworth Street, the property of W. J. Leggett, who is leaving Liverpool. It is a Light-class Retail and Prescribing Business, with own Specialties, and exceedingly profitable. The shop is a corner, with large plate-glass window, in a good thoroughfare and thickly-populated neighbourhood, near the outskirts of the city, with plenty of scope for improvement, as the neighbourhood is still increasing. The house consists of 8 rooms, including 2 rooms next to shop, with all conveniences for a family. The rent is £31 per annum (clear), can be had on lease if desired. The last stocktaking amounted to about £140. The present is an unusual opportunity of acquiring a steady-going business (conducted on modern lines) at a sacrifice. Particulars of returns, &c. may be had from the Proprietor, or F. J. Brett. There is an excellent opportunity for Dentistry. The Vendor does not bind himself to accept the lowest or any tender, but as he is leaving Liverpool no reasonable offer will be refused.

Tenders will be opened by Mr. F. J. Brett on Thursday next, 20th inst., 3 p.m., at 95 Boaler Street.

# TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**TO** Chemists and others—Bijou open Surgery to be let with residence, in West-end main road; prominent front; most suitable to Chemists and Drug Store; the rent is very low, and small premium asked. Call before 12 or after 6 at 173 Westbourne Grove, W., or by appointment in the afternoon; no card.

# SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

## RETAIL.

**BARNSELEY**.—Wanted, Manager for Mixed Retail, Wines, Spirits, and Tobacco; registered; energetic, obliging, and trustworthy in every way; married; one desirous of purchasing a very old-established business preferred. Apply, stating experience, age, salary required, also enclosing references and photo, to J. L. P. Hollingworth, Chemist, 21 New Street, Barnsley.

**BEDFORD**.—Assistant, accustomed to routine of good-class Retail and Dispensing business; age not under 21. Apply, stating full particulars as to age, height, experience, salary required, &c., to John Ekins, High Street, Bedford.

**BETTWS-Y-COED (North Wales)**.—A qualified Assistant; one with knowledge of Welsh preferred; state age, height, and all particulars. Apply, R. Parry, Chemist, Bettws-y-Coed.

**BRIDGWATER**.—Active Junior required at once; Light Retail and Dispensing. Send full particulars, salary required (indoors), and photo (which will be returned), to Bouchier, 67, 69, 71 Eastover, Bridgewater.

**BUCKINGHAM**.—Messrs Sirtt & Son, Buckingham, have a vacancy for a Junior Assistant, accustomed to Agricultural and good-class Family business, and able to Extract Teeth; applicants must state age, height, salary required, and enclose photograph, which will be returned; no Sunday duty, comfortable home.

**BURTON-ON-TRENT**.—Wanted, for 3 weeks, commencing June 3, a Dispenser and Bookkeeper, for a firm of Surgeons. Apply, in first instance, stating age, salary required, &c., to Mr. Sage, Nelson Street, Wainhill, Burton-on-Trent.

**CARNARVON**.—Wanted, an Assistant, with a knowledge of the Welsh language. Apply, with particulars, to W. Lloyd, 26 High Street, Carnarvon, North Wales.

**CHINA**.—A thoroughly competent Assistant, accustomed to first-class Dispensing and Retail; not over 30 years of age; 4 years' agreement; passage paid out and home. Address, "China," c/o A. S. Watson & Co. (Limited), 8 Fenchurch Buildings, E.O.

**DARLINGTON**.—Wanted, a qualified (Major or Minor) Manager-Assistant for high-class Drug Store; must possess good business qualities, and be of gentlemanly appearance and address; must be active and obliging. Apply, with reference and photo, and state salary required, to A. T. Nicholson, 29 Langholm Crescent, Darlington.

**DROYLSDEN**.—Wanted at once, a smart man as Assistant to take occasional charge; good Prescriber essential; one used to putting stock, and not afraid of work; permanency for honest, obliging, and reliable man; no Sunday duty. Apply, with full particulars, stating whether married, and salary required, to O. H. Griffiths, Droylsden.

**EXETER**.—Wanted, Junior Assistant; quick Dispenser and Counterman. Apply, stating age, height, reference (and enclose photo) Milton & Son, Pharmaceutical Chemists, 255 High Street, Exeter.

**GLOUCESTER**.—Wanted, Junior; indoors; Light Retail and Dispensing; half-holiday weekly; must be good counterman and capable of taking charge occasionally. Apply, stating age, height, experience, and salary required, and enclosing photo (to be returned) Wells, 31 Lower Barton Street, Gloucester.

**GUILDFORD**.—A reliable, qualified Assistant (indoors) in a good class Dispensing and Family business. Apply, with full particulars Waller Martin, 68 High Street, Guildford.

**HULL**.—Wanted, Improver, smart and active, one having had 2 or 3 years' counter work. State references and salary expected, Hull Drug Co. (Lim), 34 Whitefriargate, Hull.

**HULL**.—Wanted, qualified indoor Assistant, about 24, accustomed to first-class Retail and Dispensing business; two kept; short hours. Apply, stating age, height, salary required, and references, to Metcalfe Son, Pharmacists, Whitefriargate, Hull.

**JERSEY**.—Wanted, for one month, early in June, reliable Assistant to take charge; Dispensing and Light Retail; would suit invalid French an advantage. Full particulars and terms (indoors), together with references, replied to per return. Walden, Chemist, Jersey.

**KIDDERMINSTER**.—Branch-manager for good Mixed business with furniture to live on premises preferred; good house, pleasant situated; easy hours; no Sunday or Bank-holiday duty. State fully good Prescriber, Tooth-extractor, age, height, salary (with rent free), who disengaged, if married what family, references, experience, qualifications enclose carte, to Griffin, Chemist, Kidderminster.

**LIVERPOOL**.—Wanted, an assistant, about 22, for store trade, to live in; only those with good references need apply. State usual particulars and salary required, to 26 Croysland Street, Liverpool.

**LIVERPOOL**.—Wanted, an Assistant, about 26, accustomed to Dispensing, Prescribing, and medium class Retail; salary £50. Address with references and particulars, J. W. Tattersall, Oazneau Street, Liverpool.

**LONDON**.—Wanted, Manager, West-end Branch. Apply, P. C. Baker, 174 Victoria Street, S.W.

**LONDON**.—As Dispenser; wanted, at once, qualified man accustomed to quick Cash business; also a smart Junior. Apply, Lewis & Burrows (Limited), 22 and 24 Great Portland Street, W.

**LONDON**.—An Assistant, accustomed to good-class business; must be a neat and accurate Dispenser; part-time man treated with; east distance to Bloomsbury Square. Apply, 118/19, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

**LONDON (West End)**.—At once, reliable Junior Assistant, with good references; aged about 21; ample time for study; country one preferred. Send full particulars as to wage, height, salary required, photo and reference, indoors, Burgess, 12 Foubert's Place, Regent's Street, W.

**LONDON, N.**.—Qualified Assistant (indoors) wanted at once; abstinent preferred. Apply, with full particulars of age, experience, salary required, &c., to Barton Dell, 148 King Street, Hammersmith, W.

**LONDON, N.W.**.—Wanted a competent Assistant for good Dispensing and Retail, about 23. Apply after 6 p.m., Thomas Greenish, 20 Regent Street, Dorset Square, London, N.W.

**LONDON, S.E.**.—Wanted, for Light Retail and Dispensing business, qualified Assistant; only one kept; easy hours, no Sunday duty. Apply at 56 Knight's Hill Road, West Norwood, S.E.

**LONDON, N.E.**.—An Assistant (indoors), steady and of good address; half-day holiday Saturdays; 2 kept. Apply, with full particulars and salary required, to W. Sharman, 247 Mare Street, London, N.E.

**LONDON, S.W.**.—Messrs. Hairsline & Co., 47 Haymarket, S.W., have a vacancy for a qualified Assistant, about 24 years of age, and accustomed to good-class Retail and Dispensing; applicants will please state usual particulars.

**LONDON W.**.—Smart, intelligent Counterman wanted at once. Apply Goss (Limited), 201 Regent Street, between 1 and 2 o'clock.

**MALVERN LINK**.—Wanted, an Assistant, Minor qualification, for a Light Retail and Dispensing business; able to extract teeth preferred; indoors. Apply, stating age and salary required, to C. J. Broom, Malvern Link.

**MARGATE**.—Wanted, immediately, a Junior, to assist Dispensing, keep stock and accounts. Give full particulars of experience, age, height, salary expected, and enclose carte, to D. T. Evans, The Parade, Margate.

## RETAIL—continued.

**NORTH OF SCOTLAND.**—Wanted, in a few weeks, an active, pushing, qualified man for a new cash business. State usual particulars to 120/17, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**OLDHAM.**—Wanted, smart active Junior, outdoors, about 20, for pushing Retail business; must be quick and reliable, and a good Counterman. Address, stating age, experience, references, and salary required, with photo, to J. & J. Thompson & Co., Ltd., 192 Manchester Street, Oldham.

**PAIGNTON (Devon).**—Immediately, qualified Assistant in Dispensing and Light Retail business; knowledge of Photography preferred. Apply, with photo and full particulars, to Sarson, Central Pharmacy.

**PLYMOUTH.**—Immediately, Qualified Assistant (indoors); must be good Counterman and Tooth Extractor. Apply, stating age, height, references, if abstarner, salary required, and enclose photo (to be returned), J. F., 40 King Street, Plymouth.

**PONTYPOOL.**—In Light Mixed business; smart Assistant wanted: aged about 23; another kept; no Sunday duty; live in; apartments provided outdoor; a permanent and steady man only required. Apply, with c.v., references, &c., to E. B. Ford, Pharmaceutical Chemist, Pontypool.

**READING.**—Senior Assistant wanted; qualified. Apply, stating full particulars, salary required, &c., to F. Tunbridge, Castle Street, Reading. Applications not replied to within 3 days may be considered declined.

**REDHILL.**—Junior Assistant required; one having recently completed his apprenticeship; knowledge of Photography preferred, but not indispensable; active and reliable. State age, height, salary, reference and photo (to be returned), to Fowler, Pharmaceutical Chemist, Redhill, Surrey.

**SEACOMBE.** Wanted, a Junior Improver or Turnover Apprentice, about 18, in a Light Retail and Dispensing business; time allowed for recreation and attending Liverpool School of Pharmacy. Apply, stating age, height, salary expected, with reference, also photo, to Hinkley, Seacombe, Liverpool.

**SOUTH AFRICA.**—Assistants (qualified or unqualified) open to accept situations in this rapidly rising Colony, should apply to B. G. Lennon & Co. (Limited), 75 Leadenhall Street, London; applicants should be of sound health and not over 30 years of age.

**SOUTH COAST.**—Assistant, about 22 or 23; must be of gentlemanly manners and address, accustomed to Dispensing and good-class trade; indoors; could arrange time for study if desired. Apply, with full particulars, 119/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**SUTTON.**—Wanted, an indoor Assistant, well up in Retail; good references indispensable; comfortable home. Please state all particulars, age, experience, &c. to F. P. Frost, Chemist, Sutton, Surrey.

**TROWBRIDGE.**—Immediately, qualified Assistant, aged about 24; short hours; no Sunday work; comfortable home. Apply, with full particulars, enclosing photo (to be returned), to C. T. H., 16 Fore Street.

**WATTON, NORFOLK.**—Assistant wanted, either in or outdoor; to a man used to a Mixed country business; this might be a permanency. Apply, Vincent, Watton, Norfolk.

**WOLVERHAMPTON.**—Junior Assistant, indoors, of good address, abstainer; accustomed to Country trade; character must bear strict investigation. Apply, stating age, height, salary required, when at liberty, with references, to Fleeming & Son, Pharmaceutical Chemists, Wolverhampton. Applications not answered within three days declined.

**COMPETENT** Assistant, not necessarily qualified, for good class Cash business; only gentlemen with unexceptionable references need apply. "Competent," c/o F. Newbery & Sons, 1 King Edward Street, London, E.C.

**JUNIOR** and Improver required at once, for season or longer; one accustomed to a good-class Retail and Dispensing business; indoors; State full particulars, 120/31, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**OLD-ESTABLISHED** firm, select business (own Specialities largely, and Dispensing), requires Assistant; outdoors; single; not under 24; not necessarily qualified; must be gentlemanly, punctual, and well able to push own specialities, or do good at all. Send particulars, height, age, salary required, and references, with portrait (returnable), to Box 142, Post Office, Bradford.

**QUALIFIED** Assistant wanted for good-class Cash business; references must bear careful investigation. Apply, with full particulars, to "Registered," c/o Messrs. Wright, Layman & Umuey, 48 Southwark Street, London, S.E.

**WANTED** at once, good Junior, active and obliging; must be well recommended. Full particulars to Wright, Layman & Umuey, Southwark Street, London.

**WANTED**, smart, industrious Junior; prospective situation; also one for Warehouse experience with Branch shops; outdoors. Hulme & Co., Chemist, Nottingham.

## WHOLESALE.

**GLASGOW.**—A thoroughly steady, smart, and experienced man wanted to attend to the pricing, checking, and sending out of Wholesale Drug orders and to undertake the supervision of 3 hands; wages about 30s. per week. Apply, giving particulars, and stating age, to 118/7, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LONDON, E.C.**—Wanted, by a Wholesale Drug House in the City, a competent Junior with knowledge of both Wets and Drys; permanency to suitable man. Apply, stating age, references, and salary expected, to R. D. (118/24), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AGENTS** wanted, for the Sale of a well-known high-class Toilet Speciality sold by Perfumers, Chemists, and Drapery Houses; only well recommended pushing agents need apply. Box 11567, c/o C. A. G. Browne, 145 Fleet Street, E.C.

**A WELL-EDUCATED** Pharmacist, with good scientific attainments, who has taken the lead in first class houses, is wanted for an appointment in a Manufacturing Department; the prospects are excellent, and previous Wholesale experience, though desirable, is not indispensable. Apply by letter, with full particulars of age, qualifications, experience, and salary required, to A., c/o Fox's, 60 Fore Street, E.C.

**GENERAL** Manager wanted, to organise and administer a large business, with thorough commercial experience; able to control large staff of employees and workmen, with good connection with Stores, Grocers, Chemists, &c. Apply, by letter only in first instance, stating age, references, experience, and salary required, to Secretary, Airtors (Limited), Broad Street Avenue, E.C.

**TRAVELLERS** wanted, to call on Chemists, to push much-wanted specialities; liberal commission to good men. Apply by letter, Peat Industries Syndicate (Limited), 15 Walbrook, E.C.

**TRAVELLER** required, by a provincial house, to call upon Surgeons, Chemists, and Confectioners in South Wales; would be required to reside in Cardiff. Apply, stating age, height, salary required, references, and enclose carte, to 119/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**WANTED.** Traveller, with one other commission, to call on Chemists in London and suburbs, with line of Perfumery and Sundries, aged about 25. Apply, E. M. C. (121/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

## BOARD AND RESIDENCE.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

**TO** Students.—Board and Residence at a Chemist's in the W.C. district; terms very moderate, and can be reduced by part-time engagement. For further particulars, address A. H., c/o White & Co., 36 King Street, Covent Garden, W.C.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

## RETAIL.

**PART-TIME;** London; Major; 21. Hopkins, 127, St. George's Road, Southwark.

**LOCUM** (31); disengaged till 26th inst. Jones, 152 Camberwell Road, S.E.

**AS** Assistant; outdoors; unqualified. Address, "Homo," 2 Kingsmead Terrace, Bath.

**JUNIOR;** Manchester or district. Cooling, 1 Delaney's Road, Crumpsall, Manchester.

**JUNIOR:** 20; 5 years with leading northern house. Hay, Ford, Northumberland.

**ASSISTANT:** 22; part-time or time for study. Snowden, Granby Place, Scarborough.

**GOOD** all-round quick trade; in or out; disengaged; 44. D., Pearce's, Chemist, Edmonton.

**JUNIOR:** 18; outdoors; London or large town. Mason, c/o Mr. Loveridge, Faringdon.

**AS** Assistant, with time for study; 25; 8 years' experience. W. H. Evans, 1 Lion Terrace, Cardigan.

## SITUATIONS WANTED CONT'D

## RETAIL—continued.

**HALF-DAY** engagement desired from 2.30; qualified; aged 43. C. M., 347 Green Lanes, N.

**LOCUM** or permanent; disengaged; aged 29; good Extractor. 2 Horton Street, Lewisham.

**DISENGAGED.** June 10; unqualified; 12 years' experience. Wilson, 124 High Street, Tonbridge.

**LOCUM-TENENS;** experienced Dispenser and Bookkeeper. "Omega," 28 Outram Street, Darlington.

**JUNIOR;** 6 years' experience; disengaged. Weale, 7 Worcester Street West, Brynmawr, Breconshire.

**JUNIOR;** 22; tall; Dispensing experience, Photography; London. Rees, 13 Walter's Road, Swansea.

**ASSISTANT;** 24; London experience; good references; Store trade. D. J. P., 25 Church Street, Blaina.

**LOCUM;** qualified; first-class West-end experience. "Chemist," 1 Church Street, Lissou Grove, N.W.

**ASSISTANT;** aged 27; good Counterman; unqualified. "Dulcio," 3 Rodney Place, Walworth, London.

**LOCUM** (29); disengaged from 17th inst.; abstainer; qualified. Williams, 152 Camberwell Road, S.E.

**LOCUM** or Temporary; experienced; 26; obliging, energetic. "Locum," 17 Ramsden Terrace, Leeds.

**MANAGER** or Assistant, with view to early purchase; capital £700 to £1,000. X., 27 The Grove, Reading.

**BRANCH-MANAGER** (reside premises) or outdoor Assistant; Minor; 28. "Radix," Heckington, Linc.

**TEMPORARY** or Manager; 28; qualified; best experience. "Ex-tractor," 16 Courtnell Street, Bayswater, W.

**QUALIFIED;** 23; 6½ years' experience; abstainer; North or Midlands. "Photog.," Southleigh, Buxton.

**MANAGER** or Assistant; outdoors; experienced; qualified. "Chemist," 17 Braxfield Road, Brockley, S.E.

**ASSISTANT;** 24; London Store experience; smart and energetic. Williams, 16 High Street, Barry, South Wales.

**MANAGER** or otherwise; disengaged; unqualified; aged 26; married. H. Bedding, 230 Hackney Road, N.E.

**LOCUM-TENENS,** or part-time; qualified; great experience. "Dentist," 4 St. Stephen's Road, Lewisham, S.E.

**MANAGER** (Branch) or Assistant; Extractor; 45; qualified; married. "Chemists," 152 Newcastle Street, Burslem.

**IMPROVER;** 18½; 2½ years' good-class experience. Dispensing, &c.; indoors; Wesleyan; abstainer. 140 Trafford Road, Eccles.

**34;** Locum or permanency; good experience and address; abstainer; disengaged 17th. "Chemists," 29 Berwick Street, S.W.

**JUNIOR;** 20½; 4½ years' experience; outdoors; abstainer; disengaged June 12th; good reference. Ross, 1 Easy Row, Birmingham.

**ASSISTANT;** outdoors; 25; 10 years' good town and country experience; disengaged. Evans, 33 Trinity Square, Borough, S.E.

**ASSISTANT,** 23; tall; used to good-class Dispensing and Light Retail; good reference. W., 50 Moss Lane West, Manchester.

**JUNE 10;** situation, with time for study; London preferred; good references; 21; 5 ft. 6 in. Modley, 15 West Street, Fareham.

**QUALIFIED;** 23; in London house where several are kept; outdoors preferred. W. H. H., c/o Franklin, Chemist, Gloucester.

**ASSISTANT;** disengaged; good Counterman, &c.; outdoors preferred; aged 31. "Alex.," 56 Knight's Hill Road, West Norwood, S.E.

**ASSISTANT;** unqualified; 22; good experience; excellent references; disengaged May 25th. W. J. W., 15 East Street, Taunton.

**CHEMIST** (retiring) desires to recommend his Assistant as Senior or Manager. Brown, 40 Elizabeth Road, Upton Park, London, E.

**PART-TIME,** evenings and Sundays, for Retail shop, or Surgeon's Dispenser. E. Harrison, 18 Olayland's Road, Clapham Road, S.W.

**JUNIOR;** 20; 5 years' experience, Dispensing, &c.; height 5 ft. 10 in.; outdoors preferred; disengaged. E. S., 29 Wilberforce Street, Hull.

**ASSISTANT,** Dispenser, or Locum; good address and experience; tall; disengaged; best references. S. Q. N., 32 Barnshury Road, N.

**LOCUM;** 30; Dispenser, Extractor, Prescriber. "Liverpoolian" (118/4) Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

**SURGEON'S** Assistant or Dispenser; 23; Midwifery, Viiting; quick, neat, and accurate; excellent references. Sharp, 9 High Street, West Norwood.

**ASSISTANT,** pushing Counterman; 22; 6½ years' experience; outdoors preferred. "Radix," 11 South Street, Manchester Square, W.

**SEVEN** years' experience (two in London); Junior wishes London outdoor situation; good references. "Nat.," 14 Frederick Street, Edinburgh.

**ASSISTANT;** aged 23; accustomed to good-class business; disengaged in a week. 121 25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DISPENSER;** outdoors; 24; good references and experienced; fluent English, French; London, S.W., preferred. "Antipyrine," 57 Sydney Street, Chelsea.

**LOCUM;** aged 30; probably disengaged Wednesday next; holiday engagements booked. "Chemist," 3 Malvern Terrace, Cheddton Road, Taunton.

**HEAD** Assistantship in good-class business; qualified; used to managing; 7 years' experience; excellent references. Knight, Wokingham Road, Reading.

**ASSISTANT;** 23; outdoors preferred; London or near; speaks French fairly well; excellent references. "Riviera," West Lodge, Barnsbury Square, N.

**PART-TIME;** disengaged evenings and Saturday afternoon and evening; Store-chemist or Surgeon. "Antipyrine," 82 Crowndale Road, London, N.W.

**QUALIFIED;** 21½; highest references; Manchester preferred. State salary, "A. P. S." (117/31), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**AS** Manager or Locum for branch, with view to possible succession; Brighton preferred; good Prescriber; aged 35; married. D., 232 Kilburn Lane, London, N.W.

**MANAGER** or outdoor Assistant; married; qualified; good Prescriber and Extractor; has furniture, &c. "Chemist," St. Wolston House, Wigston, Leicester.

**TEMPORARY** engagement desired during summer; competent; experienced; present engagement 4½ years, expires 28th. "Minor," 39 Norfolk Road, Brighton.

**JUNIOR;** 19; tall, in or outdoors; London, N.W. W. or North preferred; disengaged June 9th. Apply before 29th May. Butcher, 30 High Street, Notting Hill, W.

**JUNIOR** Assistant; 21; outdoors preferred; 5 ft. 9 in.; good Dispenser; disengaged; 6 years' experience; good references. A. J. Smith, 52 Railway Road, King's Lynn.

**MANCHESTER** or Liverpool; Junior; 5 years' experience in good-class business; outdoors preferred; references. Address, S. Harris, 81 Cornwall Road, Westbourne Park, W.

**DISPENSER,** or Counterman; aged 24; total abstainer; fluent English, French, Spanish; excellent experience and references; outdoors. B., 10 Fulham Road, Brompton.

**MANAGER,** or Assistant in brisk, good-class business; 30; single; good references and experience. "Locum" (121/28), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**LOCUM;** 25; qualified; arranging engagements for the season; highest references; Prescriber and Extractor. Apply, 116 28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**QUALIFIED;** 20 years' experience; good references (family); Dispensership, Firm of Surgeons; Hospital, Managership for widow; or other suitable position. "Alpha," 26 High Street, Abergavenny.

**MANAGING,** or Senior Assistant; aged 35; married, no family; 5 ft. 7 in.; thoroughly all-round, Extractor; steady and reliable; highest references. No. 120/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**RETAIL—continued.**

**GENTLEMAN**, qualified, desires situation, Assistant or Manager, of a remunerative business, with good house attached, with view to succession. Address, "Enterprise," 69 Windsor Road, Stockton-on-Tees.

**MANAGER**; permanency; over 20 years' experience; married; excellent references; good knowledge of Dentistry; Liverpool or district preferred. Stocks, 133 Rosslyn Street, Aigburth Road, Liverpool.

**MANAGER**, Assistant, or Dispenser to Surgeons; 16 years' experience; aged 32; married; permanency; country preferred; unqualified; excellent references; disengaged. "Extractor," 33 Amersham Grove, New Cross, S.E.

**WHOLESALE.**

**SCOTSMAN**, over 6 years' first-class Retail experience, wishes situation in Wholesale laboratory. "Scotus," 90 Wyndam Road, Cardiff.

**TO Chemists**.—Wholesale Counterman desires Evening Employment in any capacity; 7 years' experience. "Filicia," c/o Phillips, 118 Blackfriars Road, S.E.

**MANCHESTER**.—Junior, good Retail experience, studying, desires Wholesale situation, Drug or Sundries. "Endaimon," 24 North George Street, Salford.

**SITUATION** required in Wholesale warehouse; aged 29; 8 years in last situation; Midlands preferred. Apply, "Squils" (119/9), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TRAVELLER**, with good connection North and Midlands, desires engagement with good Sundry or Perfumery house; am leaving present firm shortly; good testimonial. H. B. (118/23), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**TRAVELLER**, calling on Chemists and Grocers, representing first-class English house in Ireland, wishes to meet with another who would pay part salary and expenses. "Medicus," 26 Stephen's Green, N., Dublin.

**MISCELLANEOUS.**

*Special charges are made for Advertisements under this heading, which can be obtained on application.*

**A FIRM** having large premises and facilities for stocking and despatch, is prepared to enter into arrangements with firms requiring the same in Manchester. 14/27, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**A FIRM** of Manufacturing Chemists and Packers are prepared to undertake the preparing, packing, and despatching of any proprietary articles or goods; exceptional facilities and favourable terms. 110/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

**DAISY** Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

**SULPHUR** tablets, and sulphur and sarsaparilla tablets; the best made; send for samples free; sulphur tablets, 2 cwt. at 36s., 1 cwt. at 38s.,  $\frac{1}{2}$  cwt. at 21s., under 5d. lb.; sulphur and sarsaparilla, 2 cwt. at 41s., 1 cwt. at 45s.,  $\frac{1}{2}$  cwt. 25s., under 28 lbs. at 6d.; carriage paid on orders of 28 lbs. and upwards, cases free; window-tickets supplied free, various priced wordings. White, Chemist, Leicester.

**CHEMIST'S** Shop-fixture, 12 ft. long, containing 60 drawers, bevelled-edge glass labels, glass knobs (lockers below), pilasters, shelves (cornice above); mahogany or walnut, £13; counters, mahogany top, 7s. 6d. foot run; bent plate counter-cases, 6 ft. long, 95s.; cheapest house for window-fittings, plate-glass shelves, mirrors, sponge-cases, counter-cases. Treble & Co., Complete Shop Fitters, Rectory Works, Jenner Road, Stoke Newington, London, N.

**CHEMISTS'** Shop-fixture.—Ranges mahogany drawers, with bevelled-edge glass labels and out-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-decks; tooth-brush cases; complete shop-rounds, &c.; every requisite for chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 Manchester Street, Liverpool.

**COMPLETE** wall-fitting, very handsome, 14 ft. long, with mahogany-fronted drug-drawers, with bevelled glass, white and gold lab ls and cut crystal knob; locking under, mirror poison cupboard, with pilasters, shelving, and cornice over, £18 10s.; 14 ft. mahogany and plate-glass serving-counter, £13 10s., 12 ft. do., £11 10s.; handsome 6-ft. mirror-centre dispensing-screen, with plate-glass sponge-case and counter under, £13 10s., complete; marble-top mahogany and plate-glass sponge-case, £5 10s.; 6-ft. mahogany bent plate-glass counter-case, with serving and display shelves, £5 10s.; bottles, jars, scales, &c., &c. Philip Josephs, 54 Old Street, City Road, London, E.C.

**TO** be Sold, immediately, high-class Stock of Chemist's Fittings, including elaborate ranges of a lid mahogany-fronted drawers, fitted with bevelled-edge labels, crystal-cut knobs, 10 to 20 ft. long; also ranges of shelving and lockers to match; 20 plate-glass fronted counter's, mahogany tops, the backs fitted with numerous drawers, including cash, label drawers, &c.; solid mahogany wall-cases with movable shelves, 6 ft. to 20 ft. long; immense stock of window-enclosures, bent-glass show-cases, sponge-cases, massive dispensing-screens, from 70s. upwards, and everything appertaining to the Chemist's business. Shops, &c., fitted up entirely within a fortnight's notice, from £50 upwards, by most experienced men. Write for testimonials, Edwards & Co., Medical Fitters, 108 Whitechapel, Liverpool.

**CUCUMBER AND GLYCERINE.**

**ROUSE'S** Cucumber Paste is the best for preparing Cucumber Emulsion. Formulae and labels free with each jar:  $\frac{1}{2}$  lb. (for 3 lbs. emulsion), 2s. 3d.; 1 lb., 4s. 3d.; 7 lbs., 25s., post free. Rouse, 61 Charlotte Street, London, W.

N.B.—Cucumbers actually enter into the composition of this article.

**CURATIVE TINCTURES, EMBROCATIONS, AND PREPARED WINES.**

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**THE** next EXAMINATION for the MEMBERSHIP of this Institute will be held on Tuesday, the 20th day of July, 1897, and three following days.

In consequence of the increase in the number of candidates whose applications for examination have been accepted by the Council, it is probable that more than one examination may be held in July.

Application forms can be obtained from the Secretary at the above address. All candidates must produce evidence of having passed a preliminary examination in subjects of general education, and of having taken a systematic course of at least three years' study in one of the Colleges approved by the Council, or of having been engaged for two years in the laboratory of a Fellow of the Institute, and for two other years in one of the approved Colleges.

The Council desire it to be understood that the right to use the letters A.I.C. and F.I.C. belongs to persons who have passed through the course of study and the examinations prescribed by the Institute.

Full particulars are given in the book of regulations for admission to the membership of the Institute which may be obtained from Messrs. Blundell, Taylor & Co., 173 Upper Thames Street, London E.C., price One Shilling.

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# Exchange Column—Bargains

## THE CIRCULATION OF . . . THE CHEMIST & DRUGGIST SUPPLEMENT NEXT WEEK, MAY 22, 1897, WILL EXCEED **14,000,**

That is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of THE CHEMIST AND DRUGGIST.

Take advantage of it by advertising Old and Surplus Stock, which can be turned quickly into cash by this means, and Apparatus, Books, &c., can be disposed of to advantage.

The whole Trade reads this page.

## BARGAIN NUMBER,

MAY 22, 1897.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, May 20, at 5 p.m.; but send earlier if you can.

### APPARATUS.

**Large** and small oil-tanks; all sound. Write for particulars, SURFLEET, Chemist, Gainsborough.

**One-pint** bell-metal mortar and iron pestle (as Maw's, fig. 29); what offers? NINNIS, 37 Crawford Street, W.

**Werner & Co.'s** pill-massing machine for 5 or 6 lbs.; vide Diary 1897, p. 598; cost £8 10s.; offers wanted. HOLDEN, Chemist, Barnsley.

**4-grain** pill-machine, bougie-mould, pessary-mould; also dental-forceps (new), with key and lancet; cost £3 15s.; what offers? SURFLEET, Chemist, Gainsborough.

**Large** galvanised-iron tank, steam-tight, manhole and outlets, 72 x 30 x 18; also large galvanised percolator cone, holds 60 gals.; low price. MADDOCKS, 27 Upper East Smithfield.

**For Sale**—1 Chinnery's patent portable aerated soda-water machine, with bottler attached, 11/; and 1 for chemicals only, 9/; as good as new. Address, 21/40, Office of the C. & D.

**Bracher's** patent mixer (14-lb. size), cost £4, with 2 sieves, one slightly defective; also an Italian marble mortar, 6-pint size; photograph if required; what offers for one or both? DU VAR ET CIE, 13 Orford Hill, Norwich.

### BOOKS AND PERIODICALS.

**Minor**: how to study, and where; stamp. "Tutor," 60 St. George's Road, Belgravia.

**Minor** books, second-hand, good condition; price. Apply, PIGGIN, Bradley Green, near Congleton.

"**The Chemist and Druggist**" from 1884 to 1896; what offers, whole or part? 110/40, Office of the C. & D.

**For Sale**—*The Chemist and Druggist*, 1884, 1885, 1886, 1887, 1890, 1891; what offers? 40 21, Office of the C. & D.

**Matriculation** and Preliminary scientific books, one-third published prices; also "Art of Dispensing," 1s. 9d.; Attfield's "Chemistry," 1889, 5s. "CHEMISTS," 9 Bruton Street, Berkeley Square, London.

### DRUGS AND CHEMICALS.

**About** 10 stones pulv. amyli opt., 15s. the lot; sample free. SURFLEET, Chemist, Gainsborough.

**1½ gross** 4-oz. bottles liquorice-powder, guaranteed B.P., at 30s. per gross. Address, 120/22, Office of the C. & D.

**Ten** galls. tinct. opii and 2 tinct. camph. co., the lot 26s. 8d. and 20s. per gallon, packages free. "CHEMIST," 144 Victoria Street, S.W.

**A few** ounces vanillin and coumarin (surplus stock) for sale vanillin 7s. 6d. oz., coumarin 3s. oz. R. J. CLARK, 48 Campbell Road, Bow, E.

### FORMULÆ.

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### PROPRIETARY ARTICLES.

**Chapman's** roval cattle-oils, 6 at 5s., 12 at 2s. 6d. 12 at 2s., the lot for 37s.; outside wrapper very slightly soiled. 116/21, Office of the C. & D.

**Two** dozen 2s. 9d. Wincarnis. ½ dozen 4s. 6d. Wincarnis; what offers: ½ dozen 4s. 6d. bottles hop bitters. Apply, "CHEMIST," 224 Liscard Road, Liscard.

**Mapson's** salve, moonseed bitters, Sweeting's elixir, Pierce's pellets, Rooke's elixir, 2 gross frog-in-your-throat; what offers? CARVETH, Chemist, Plymouth.

### SHOP FITTINGS.

**Sponge-case** (Maw's, fig. 5), nearly new, £3 10s. SURFLEET, Chemist, Gainsborough.

**Ordinary** shop-rounds; pints and quarts, about 150; require relabelling; what offers? SURFLEET, Chemist, Gainsborough.

**Shop-rounds**; about 180 4-oz., 30-oz., and 40-oz.; nearly new; York glass; recess label. SURFLEET, Chemist, Gainsborough.

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**Swan-neck** carboys (new); York glass make; 2 1-gall., 2 3-gall.; cut-glass stoppers; cost about £7 10s.; what offers? SURFLEET, Chemist, Gainsborough.

**Bent-glass** counter-case, 6-ft. long, 15-inch base 5-inch slope at back; velvet-lined trays; splendid condition; similar to Maw's, fig. 5. SURFLEET, Chemist, Gainsborough.

**Complete** fittings for chemist branch; splendid old mahogany, &c., cases, bottles, &c.; cheap. Apply, A. G. W., 164 Broughton Road, Pendleton, Manchester.

**Mahogany** wall-case, with cupboard underneath, dimensions of case 5 ft. 6 in. by 4 ft. by 6 in.; ditto cupboard, 3 ft. by 4 ft. 6 in.; also mahogany counter, 9 ft. 6 in., with glass cases in front. LEWIS THOMPSON, Chemist, Dover.

**7-ft.** dispensing screen, in mahogany frame, moulded top, with plate-glass tablet written "Dispensing Department;" 10-ft. serving-counter, in black and gold, stout mahogany-moulded top and carved brackets; mahogany desk with screen; 2 large carboys, cut stoppers; 2 small ditto, cut stoppers; 2 specie-jars; great bargain; to clear £6 the lot. WELLS WOOD, 8 Albion Parade, Albion Road, Stoke Newington, N.

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**For Sale**.—20-inch globe-lamp, ruby-and-blue flashed-glass, figured enrichments, arm complete. OXLEY, 206 Southwark Bridge Road, S.E.

**Surplus Stock**.—An assortment of Spratt's food and medicines; Lawrence's spectacles, assorted sizes; Spanish cigarettes; and a few soiled patents; offers or exchange. SEELY, Halifax.

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**Dispensing** scales, brass or plated; also powder-mixer and sifter. COOKE Chemist, Boston.

**Neat** small drawers for recess, 4 ft. 9 in. long, 3 ft. high; must be cheap. Dr. GILL, West Bromwich.

**A cheap** first-class corking machine for aerated waters; state particulars, "PROSPICE" (116/7), Office of the C. & D.

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FIG. 1.—SINGLE.

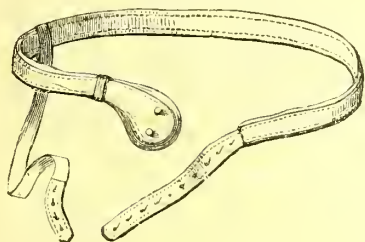


FIG. 2 DOUBLE.

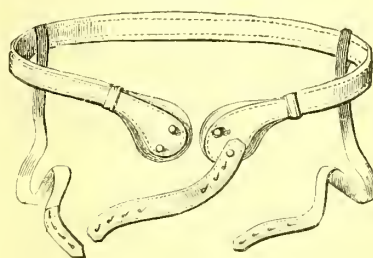


FIG. 3.—SINGLE.

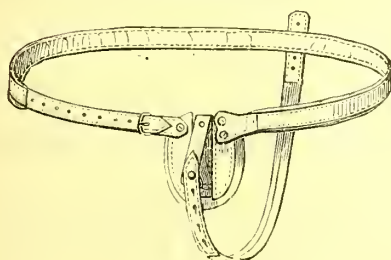
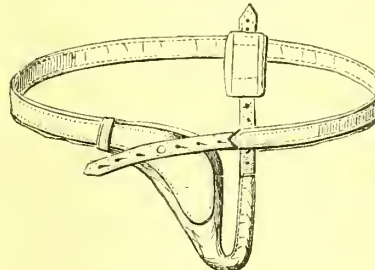


FIG. 4.—SINGLE.



1368A.	Fig. 1,	Covered in Basil and Moleskin ... ..	per doz.	13/6
1369.	Fig. 1,	Red Roan and Moleskin ... ..	..	16/0
1368A.	Fig. 2,	Basil and Moleskin ... ..	..	24/0
1369.	Fig. 2,	Red Roan and Moleskin ... ..	..	26/0
1375.	Fig. 3,	Moc Main with Flexible Body Band and Lever Spring Pad ... ..	single each	6/6
1375.	Fig. 3,	.. ..	double ..	10/6
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1381.	Fig. 4,	Single Scrotal, covered Basil and Moleskin ... ..	per doz.	36 0
1381.	Fig. 4,	Double .. ..	..	54/0

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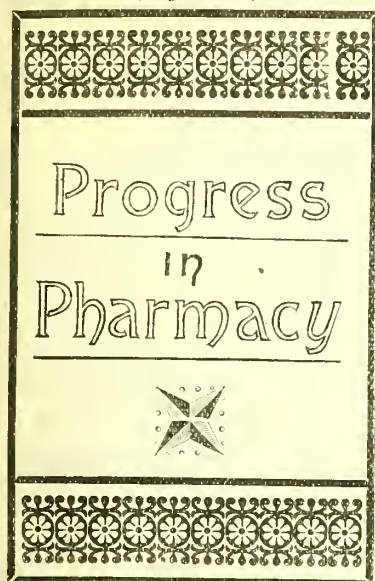
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" W. H. MALLABAND ..	(Major) ..	Sheffield.
" H. WOODWARD ..	(Major) ..	Huthwaite.
" J. BURNETT ..	(Minor) ..	Pickering.
" R. H. MARSHALL ..	(Minor) ..	Bradford.
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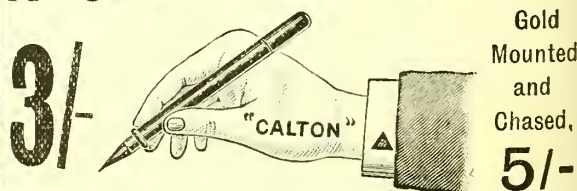
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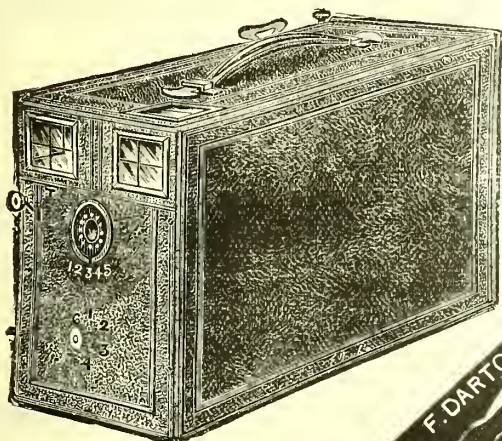
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In consequence of the recent prosecutions under the Food and Drugs Act, Messrs. Beetham & Son have received inquiries from members of the Retail Trade as to whether they were perfectly safe in selling "BEETHAM'S GLYCERINE AND CUCUMBER," and whether Messrs. Beetham would guarantee the composition of their preparation to be as represented.

# "BEETHAM'S"

## GLYCERINE & CUCUMBER.

IS GUARANTEED TO CONTAIN

A good percentage of GLYCERINE and ESS. of CUCUMBERS (*nearly 10 per cent. of each*), so that Retailers may sell and recommend this preparation without any fear of trouble to themselves, and with the full knowledge that they are giving their customers what they really wish to obtain. THIS ARTICLE being on the PROTECTED LIST of the P.A.T.A., Messrs. Beetham & Son trust that the Retail Trade will show their kindly appreciation of the EXTRA PROFITS ENSURED, by selling "BEETHAM'S," when a preparation of Glycerine and Cucumber is asked for.

Show Cards, Handbills, and Dummies sent free on receipt of Business Card.

**M. BEETHAM & SON, CHEMISTS, CHELTENHAM.**

## ST. PAUL'S BRAND JUBILEE PERFUMES

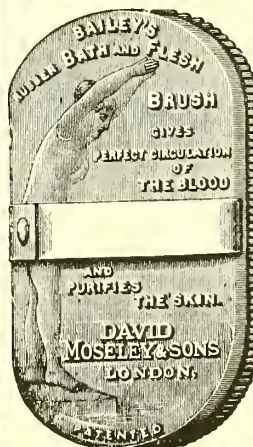


1/- Ovals, $\frac{1}{2}$ -doz. in Box	...	...	Per doz.	7/-
1/- Squares, each in Fancy Box	...	...	"	8/-
1/6 Stoppered, each in Fancy Box	...	...	"	10/6
2/6 2 Stoppered Bottles, in Fancy Case	...	...	"	21/-

NEAT SHOW-CARD sent with each  $\frac{1}{2}$ -doz.

**FRANCIS NEWBERRY & SONS,**  
1 & 3 KING EDWARD STREET,  
**LONDON, E.C.**

## BAILEY'S PATENT RUBBER BRUSHES



**Should be stocked  
by every Chemist  
and Dealer in Toilet  
Goods.**

They are extensively advertised,  
have a ready sale, and show you  
a good profit.

				Retail at
Bailey's Rubber Bath Brushes	...	42/- doz.	...	5/- each
" " Complexion	...	25/-	"	3/6 "
" " Toilet (large)	...	17/-	"	2/- "
" " " (small)	...	8/-	"	1/- "
" " Tooth, No. 1	...	6/-	"	10d. "
" " " 2	...	6/6	"	1/- "
" " Glove Cleaner	...	—	"	6d. "

TO BE OBTAINED FROM ALL THE USUAL WHOLESALE HOUSES.

WHOLESALE ONLY from  
**D. MOSELEY & SONS, 14 Aldermanbury Avenue, LONDON;**  
ARDWICK, MANCHESTER; and 1 57 MILLER ST., GLASGOW.

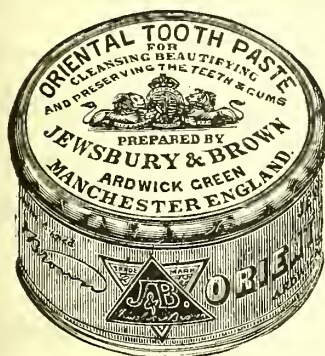
# WARRICK

## MAKERS of FLEXIBLE CAPSULES.

Best Quality Envelopes. Best Quality Ingredients.

PORTPOOL LANE, GRAY'S INN ROAD, LONDON, W.C.

### BROTHERS.



## JEWSBURY & BROWN'S Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

**JEWSBURY & BROWN,**  
ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green, a facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

*Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.*

# CORBYN'S

QUADRUPE and TRIPLE

## NATURAL

EXTRACTS.

## PERFUMES.

Toilet Waters. Sachet Powder.



### CORBYN, STACEY & CO.

Pharmaceutical Laboratory { 300 HIGH HOLBORN.  
and Drug Warehouses { 61 and 62 EAGLE STREET.

Perfume Laboratory and Warehouse - - 7 FISHER STREET.  
Analytical Laboratory - - - - 8 FISHER STREET.

*All Letters should be addressed to the HEAD OFFICE—*

**22 GREAT ST. HELEN'S, LONDON, E.C.**

Telegraphic Address:  
"COLOCYNTH LONDON."

TELEPHONE No.  
4033.

**CAUTION.****A. S. LLOYD'S EUXESIS,**  
FOR  
**SHAVING WITHOUT SOAP, WATER, OR BRUSH.**

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground, with our Trade Mark at the bottom.



30, 31, 32 & 33 BERNERS ST., W.; & 87, 91, 93 & 95 CITY ROAD, E.C., LONDON.

**ROBARE'S AUREOLINE**  
**Or GOLDEN HAIR WASH.**

4-oz. Bottles, 32/-; 10-oz. Bottles, 64/- per doz.

To be obtained Wholesale from R. HOVENDEN & SONS, & from all the principal Patent Medicine Warehouses in London

**BOORD & SON,**  
DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.  
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.  
Quotations for S.V.R. Methylated Spirit and Finish on application.  
FINEST ORANGE WINE FOR QUININE.

**JAMES BURROUGH,** **S.V.R.**

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

PERFECTLY PURE.

WRITE FOR OUR PRICES BEFORE ORDERING.

**S <sup>0</sup>/<sub>56</sub> V <sup>0</sup>/<sub>60</sub> R**

TINCTURE SPIRIT

60 O.P. AT LOWEST PRICES. 56 O.P.

**PURE ORANGE WINE.**



**S <sup>0</sup>/<sub>6</sub> V <sup>0</sup>/<sub>64</sub> M**

AT LOWEST PRICES.

Special Terms to Large Buyers.

**PURE GINGER WINE.**

FOREIGN WINE AND SPIRIT MERCHANTS.  
SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY,  
7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. 42/- Per doz.

# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

## CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

Sole Manufacturers and } **AIMÉE LLOYD & CO.**  
Proprietors :

3 SPUR STREET, Leicester Square, LONDON, W.C.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

Palatable.

Inseparable.

## Petroleum Emulsion

with Hypophosphites.

Unsweptened, and of the colour and consistence of Cream. Prepared with a specially purified Petroleum Jelly.

Price 1/3 per lb.

C. R. HARKER, STAGG & MORGAN,  
Manufacturers of Pharmaceutical Preparations,  
15 Laurence Pountney Lane, LONDON, E.C.

## SALVO PETROLIA

A SUPERIOR VASELINE.

May be procured through all Chemists and Druggists, and is Manufactured solely by the Proprietors,

**THE DEE OIL COMPANY,**  
LIMITED,

Works : SALTNEY, CHESTER.

## SALVO PETROLIA

Sanctioned by the Board of Trade Marine Department, and included in their instructions issued May, 1894, to superintendents of Mercantile Marine Offices.

Manufactured in five distinct qualities—WHITE, LEMON, YELLOW, GOLDEN, and RED (Veterinary).  
Packed in tins 1, 2, 4, 5, 7, 10, 14, and 28 lbs., 56 and 112 lb. Drums, and 3 cwt. Barrels.

## OLEUM DEELINÆ

(REGISTERED).

GENERALLY ADOPTED BY THE MEDICAL PROFESSION FOR  
Ophthalmia, Scurvy, Ringworm, Eczema,  
and all Skin Diseases.

Packed in Cases—One dozen 1s. Bottles; One dozen 2s. Bottles. Pint Bottles 4s. 6d. each, for Hospitals and Dispensing Chemists. Testimonials may be had upon application.

# GERMOL

**NEW AND POWERFUL DISINFECTING FLUID.**

(NON-POISONOUS.)

More powerful than Carbolic Acid, and does not stain or burn in use.

**"MICROBORT" FOR SURGICAL USE.****GERMOL SANITARY POWDER.****GERMOL SHEEP DIP. GERMOL SOAPS.**

Samples and Particulars on application to the Sole Manufacturers—

**READ HOLLIDAY & SONS, LIMITED**  
HUDDERSFIELD, ENGLAND, & NEW YORK, U.S.A.**DIAMOND EMERY CO.**

(LIMITED).

**DIAMOND BRAND.**

MANUFACTURERS OF

**EMERY STONE****EMERY CLOTH****EMERY CORN (all sizes)****GLASS PAPER****EMERY RUBBERS****GLASS CLOTH****EMERY FLOUR****GROUND GLASS****EMERY PAPER****KNIFE POLISH****POLISHING PASTE & ALL POLISHING MATERIALS****Works: Garston Docks.****Head Office—136 THE ALBANY, LIVERPOOL.****WISE SAYINGS WITH A MODERN APPLICATION.**

The hasty angler loses the fish, but Buchan's Enticer is a sure catch in "FLIES."

BUY THEREFORE

**THE PERFUMED STICKY FLY****1d. ENTICER. 1d.****Fly  
Enticer  
Gum.**

Tins 2d. each.

The  
Surest and Best  
Fly Catcher.TRADE MARK  
(Registered).

Send for Samples NOW, Post Free.

To be obtained from the principal Drug and Sundries Houses,  
or from the Manufacturer—**D. D. BUCHAN, FRIOCKHEIM, N.B.**

Telegrams—"BUCHAN FRIOCKHEIM."

Sole Export Agents—BURGOYNE, BURBIDGES & CO.,  
16 Coleman Street, London, E.C.**Death  
Jam.**Kills Wasps,  
Mosquitoes.Tins, 6d., 1/-, and  
2/6.Most Alluring  
and  
very Sticky.

## THE WANT OF THE DAY!

**NO MORE SOFT LINEN WHEN STARCHED.***Used in the Royal Laundries.**Should be used in Every House.*

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces &amp;c. It does not stick to spider-web-like materials.

**CRITCHLEY'S  
STARCH GLOSS**

Registered No. 40376.

*Once Tried, Always Wanted.**Makes Old Linen Like New.*From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug. 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried.  
Yours truly,  
E. ELDER.

To Mr. CRITCHLEY.

Sold by Chemists and Druggists, Grocers, Oilmen, &amp;c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY

**T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, BLACKBURN.**  
LONDON DEPOT—107 WHITECROSS STREET, E.C.

## Profitable Extras for Chemists.

**TOBACCO, CIGARS, CIGARETTES.****AND TOBACCONISTS' FANCY GOODS.**All Packet Tobaccos, Cigarettes, and other Tobacconists' Proprietary goods supplied at Manufacturers' own List Prices.  
Every Smoker's Requisite and all Novelties—Up to Date—in one order.**MINIMUM OF TROUBLE—MAXIMUM OF PROFIT.**

SEND FOR ILLUSTRATED PRICE LIST (200 PAGES), POST FREE.

**SINGLETON & COLE, BIRMINGHAM.**

## THE GREAT AND MARVELLOUS INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will kill Cock-roaches.  
"VIKO" will kill Moths.  
"VIKO" will kill Fleas.  
"VIKO" will kill Bugs.  
"VIKO" will kill Mosquitoes.  
"VIKO" will kill Ants.  
"VIKO" will kill all Insects.  
"VIKO" will not kill Dogs.  
"VIKO" will not kill Cats.



"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

REGISTERED.

Sold in 3d., 6d., & 1s. Tins.

SOLE PROPRIETORS—

### TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

TO PREVENT DISAPPOINTMENT, ORDER EARLY.

The World Famous Sticky Fly Paper.

## 'THE FLY CEMETERY'

FREE FROM POISON.

The Original and by far the Best Sticky Fly Paper in the Market.

Annual Sale—MILLIONS.

BWARE  
OF THE MANY  
SPURIOUS  
IMITATIONS  
IN  
THE MARKET.



STOCK  
A FLY PAPER  
THAT WILL GIVE  
SATISFACTION  
TO YOUR  
CUSTOMERS.

Terms, &c., from

### TUNBRIDGE & WRIGHT, READING.

North of England Depot—4 Gallowgate, Newcastle-on-Tyne.

French Agency—34 Rue St. Martin, Cognac.

**IMPORTANT NOTICE.**—If any of our customers have any over year's stock of our Fly Cemeteries on hand, we shall be pleased to exchange same for fresh goods free of cost.

TELEGRAMS—"FLIES READING."

## THE FLYODOOMO FLY STICKERS

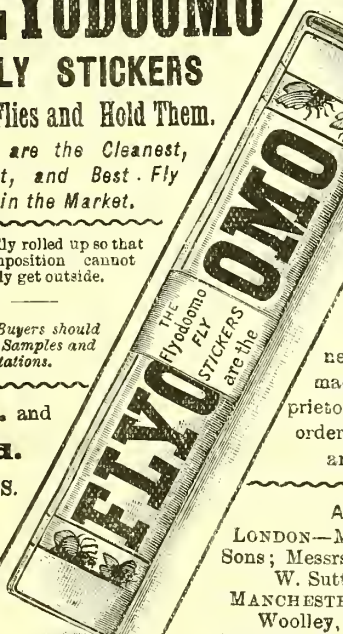
Catch Flies and Hold Them.

They are the Cleanest, Stickiest, and Best Fly Papers in the Market.

Carefully rolled up so that the Composition cannot possibly get outside.

Large Buyers should write for Samples and Quotations.

1/4d. and  
1d.  
SIZES.



Sample  
Gross, Carriage Paid,  
on receipt  
of P.O. for 5/-

Having fixed up new and improved machinery, the proprietor can execute all orders with celerity and dispatch

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LONDON—Messrs. Sanger & Sons; Messrs. Barclay & Sons; W. Sutton & Co.

MANCHESTER—Messrs. Woolley, Sons & Co.

THIRSK—Mr. W. Foggitt.

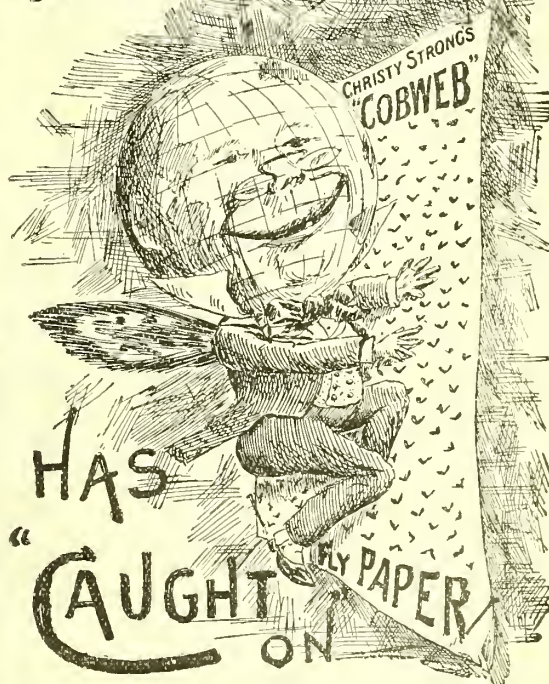
YORK—Raines & Co.

LIVERPOOL—John Thompson.

**JOHN H. SMITH  
NEWARK-ON-TRENT.**

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## THE WORLD;



5/- per gross, Carriage Paid. Cash must accompany order.  
Samples free, CHRISTY STRONG, READING.

# MAKE YOUR OWN MINERAL WATERS.

See Pages 442 and 443, *Chemist and Druggist* Diary, 1897.

A great many Chemists, Hospitals, &c., are using this simple and most effective Plant, and producing splendid Aërated Waters.

SUPPLIED ONLY BY

**THE VOLCANIC AERATION CO., 203 Great College Street, LONDON, N.W.**

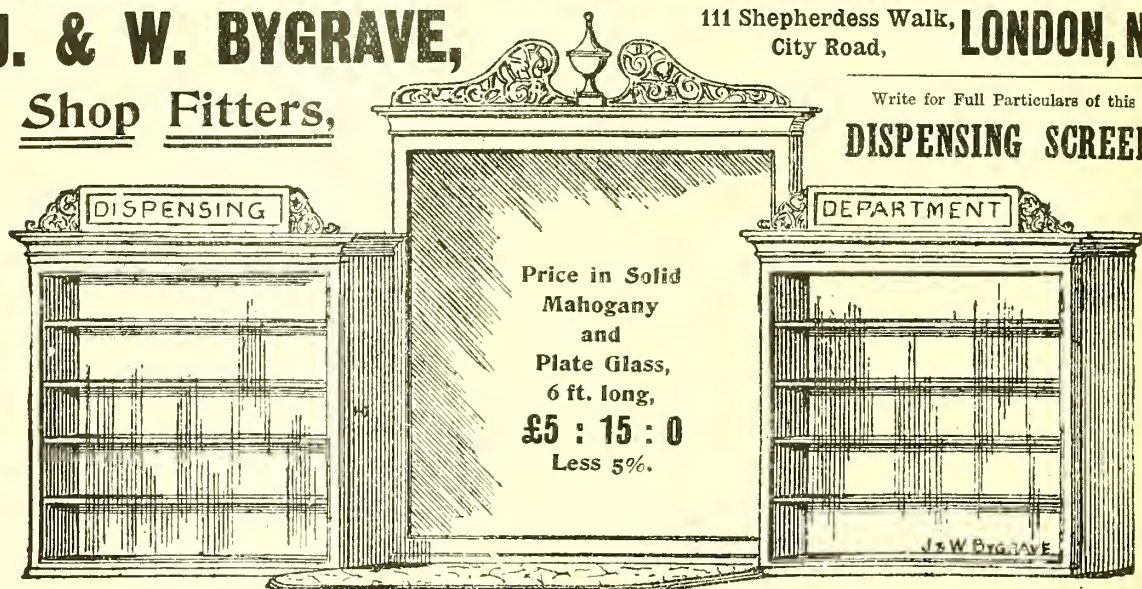
J. G. CHAPMAN, Proprietor.

## J. & W. BYGRAVE,

### Shop Fitters,

111 Shepherdess Walk, **LONDON, N.**  
City Road,

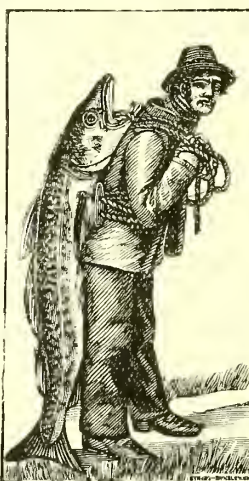
Write for Full Particulars of this  
**DISPENSING SCREEN.**



# SCOTT'S EMULSION

of Cod Liver Oil with Hypophosphites of Lime and Soda has for twenty years been endorsed and prescribed by Physicians in all parts of the world.

It contains 44% of best Norwegian Cod Liver Oil; 16% of best chemi-



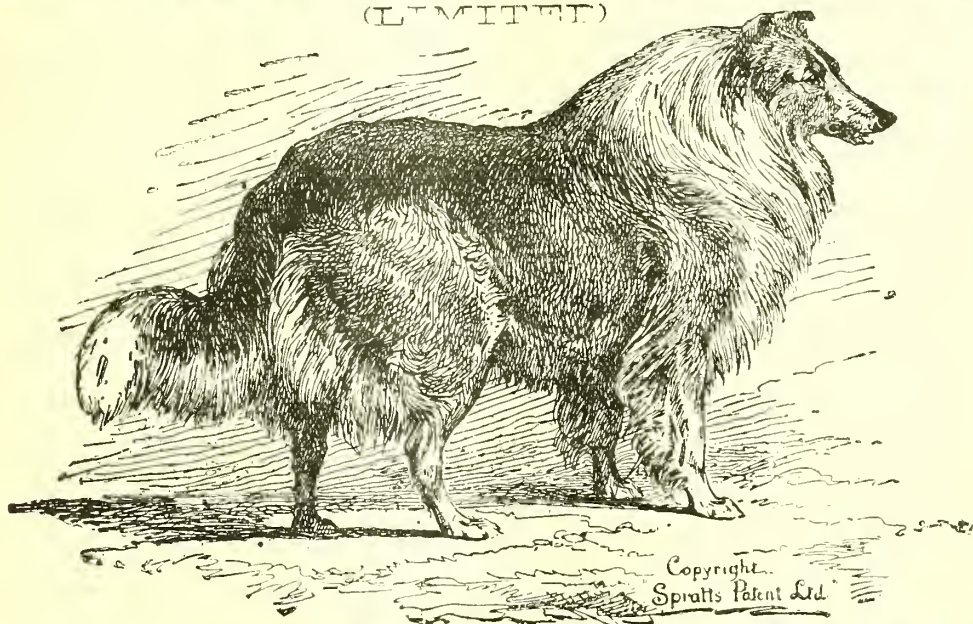
REGISTERED TRADE MARK.

cally pure Glycerine; 6 grains of Lime; 3 grains of Soda to each fluid ounce, and is the most Perfect, Permanent, Palatable Emulsion in the market

Keeps well in all climates.

**SCOTT & BOWNE, Ltd., 95-98 Great Saffron Hill, London, E.C.**

# Happy and Free from Fleas after using SPRATT'S PATENT (LIMITED)



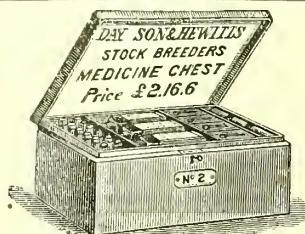
Specially Prepared **DOG SOAP.**

## DAY, SON & HEWITT, *Largest Makers in the World of* **HORSE AND CATTLE MEDICINES**



For Kicks, Cuts, Bruises, Sore Withers, Swellings, Strains of Ligaments and Tendons, Saddle Galls &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2/6, 3/6, and 7/- per Bottle.



Complete in 3 sizes. Sent Carriage Paid.

Prices—  
£6 6s., £2 16s. 6d., and £1 8s. 9d.



A sure remedy for the Fret, Colic or Gripes, Indigestion, Loss of Appetite in Horses. For Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1/9 per Bottle. 20/- per doz.



For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of milk Fever.

Price (Cows), 13/- per doz. box;  
(Ewes), 3/6 per doz. 3-doz. box, 10/-



For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off-Appetite, Staring Coat, and Sluggishness. Invaluable for Sterility or Barrenness in Horses and Mares, by virtue of its Phosphoric and other stimulating ingredients. Contains no injurious drug and can be given at all times to all breeds of horses without stopping their work.

Price 5/6 per doz. Packets; 3-doz. 15/-  
Sold also at reduced rates in Tins 10/6 and £1 each.

**Liberal Discounts to Agents  
and Foreign Buyers.**

Trade Terms and full particulars  
on application.

Attractive Showcards and Handbills  
sent with each order.

**Royal Animal Medicine Manufactory, 22 DORSET STREET, LONDON, W. [Established 1833.]**

# THE CITY OF LONDON SANITARY HEART.

DISINFECTANT,  
ANTISEPTIC,  
AIR PURIFIER.

A SAFEGUARD against  
EPIDEMICS and all INFECTIOUS  
DISEASES.

Retails at 3d.  
EACH IN A BOX.

Trade price **2s.** per dozen.

Cash with order, or through Wholesale Houses.

Also the PENNY  
SANITARY PENDANT

4/9 per gross, in  $\frac{1}{2}$ -gross boxes.

**Pleasant, Fragrant, and Ornamental.**

SOLE PROPRIETORS AND MANUFACTURERS—

**J. BEEDZLER & CO** { Established 1700. } **20 NORTON FOLGATE, LONDON, E.C.**

INSURANCE AGAINST THE RAVAGES OF MOTHS.

## RUDKIN'S MOTH-BRICKS

(REGISTERED).

When USED ACCORDING TO DIRECTIONS, are thoroughly effective for 3 or 4 years. They have been perfected by many years of experience. They may be sold with confidence. They are attractively put up, and sell at sight if given the chance. They are really the cheapest thing of their kind in the market.

Price 6d. each, or 5/6 a dozen retail.

OF ALL THE LONDON WHOLESALE HOUSES, AND DRANE, CARDIFF.

In 1 and 2 gross boxes, or tin-lined cases for export of 50, 100, and 250 dozen.

**CHLORIDE OF LIME!**  
IN AIRTIGHT, WATERPROOF & ODOURLESS PACKAGES.

SILVER I.H.E. MEDAL 1884. TRADE MARK. NATIONAL CHEMICAL CO. CHLORIDE OF LIME CO.

**LIST OF PRICES**

24 lb. Box	1.75	6/8
24 lb. "	$\frac{1}{2}$ lb.	1/-
24 lb. "	$\frac{1}{4}$ lb.	8/-
24 lb. "	(ASSORTED $\frac{1}{16}$ , $\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{1}{2}$ lb.)	7/3
24 lb. "	1 GROSS 12.	8/-

N.C. Co. INVENTORS AND SOLE MAKERS. BEWARE OF IMITATIONS.

TO BE HAD FROM ALL WHOLESALE DRUGGISTS!  
**NATIONAL CHEMICAL CO. LONDON.**

"THE ONLY GENUINE"  
**GOVERNMENT DISINFECTANT**

**CHEAPEST CARBOLIC POWDER**  
IN DECORATED TINS PER GROSS.

GREEN	15% 6" Size	45/-
& BLACK	15% 1" "	90/-
BLACK	6" Size 1 lb.	40/-
& GOLD	1" " 2 lb.	60/-

ALSO IN CASKS & PACKAGES FLUIDS, ACIDS, SOAPS ETC.

TO BE HAD FROM ALL WHOLESALE DRUGGISTS

**THE GOVERNMENT SANITARY Co LONDON**

THE BEST & CHEAPEST CARBOLIC DISINFECTANT LONDON E.C.

KEATING'S POWDER



**KEATING'S POWDER**

**FLEAS BUGS KILLS MOTHS BEETLES**

**SOLD ONLY IN TINS 3<sup>d</sup> 6<sup>d</sup> & 1<sup>s</sup> EACH.**

12 BRIDE LANE, LONDON, E.C.

DEAR SIR,

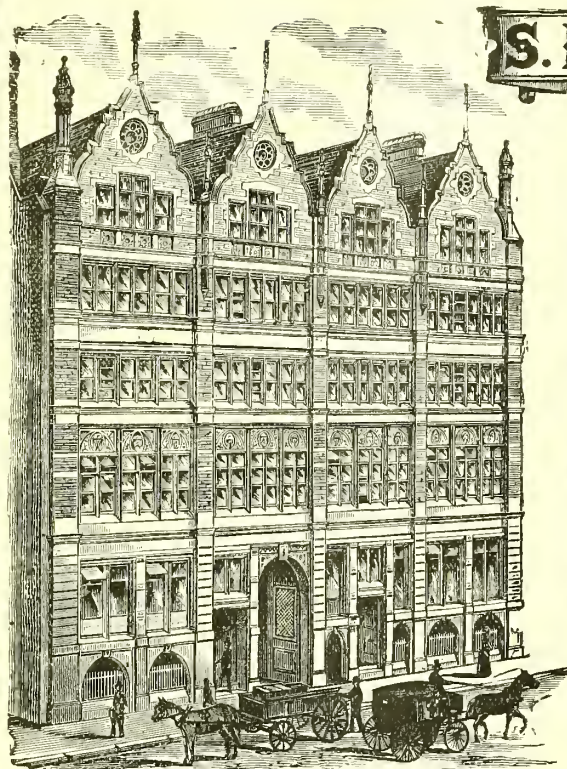
If you sell "Keating's Powder" may I suggest that one of my cards will be an attraction to your Establishment?

It measures 22 x 18 inches, the picture is printed in 15 colours, and in first-class style, the advertisement being part of the frame moulding and not too much on the Picture itself will make it an attractive feature in any shop.

If you desire to exhibit one, I will send it free by Parcel Post on receipt of your label.

Yours respectfully,

THOMAS KEATING.



**S. MAW**  
**SON & THOMPSON**



QUARTERLY  
**Price Current**



AND  
**BOOK OF ILLUSTRATIONS**  
CONTAINING NEARLY

**5,000 ENGRAVINGS**

**SURGEONS' INSTRUMENTS**  
AND

**DRUGGISTS' SUNDRIES**  
OF ALL KINDS

MAY BE HAD ON APPLICATION ENCLOSING BUSINESS CARD.

Forwarded Post Free to all parts of the World.

**S. MAW, SON & THOMPSON**  
7 to 12 ALDERSGATE STREET, LONDON, E.C.

**CORRESPONDENCE INVITED.**

**REDUCTION IN PRICE.**

**WAFER PAPER CACHETS**

IN BOXES OF 250.



No. 0.



No. 1.



No. 2.



No. 3.

Per 1,000: White, 2s. 6d.; Assorted Colours, 3s.

No. 1 and No. 2, White, printed Antipyrin, Phenacetin, Salicylate of Soda or Sulphonal, or with Name and Address of customer, per 1,000, 3/6.

**S. MAW, SON & THOMPSON,**  
7 to 12 ALDERSGATE STREET, LONDON.

Telephone Number, Bank 852.

Telegraphic Address—CHEMICUS LONDON.

## ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS

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## ACIDS

Boulton, J., &amp; Co., Lim.

## ADVERTISING SPECIALITIES

Carsan, J. R. | Harris, J. Lindner, M.

## AERID &amp; MINERALS

Apollinaris Co.  
Barnett & Foster  
Bratby & Hinchliffe, Lim.  
Burrow, W. & J. (Malvern)  
Chemists' Aerated Waters Association, Lim.  
Ellis & Son (Ruthin)  
Hertz & Collingwood  
Hunyadi Janos  
Idris & Co., Ld.  
Ingram & Royle, Lim.  
Kinnmond & Co.  
Macfarlan, J. F., & Co.  
Mills & Co. (Bourne)  
Ross, W. A., & Sons, Lim.  
Sallyco Water Co.  
Seltzogene Patent Charges Co.

## DITTO PLANT

(See SPHONS AND ESSENCES)  
Barnett & Foster  
Bratby & Hinchliffe, Lim.  
Tyler, Hayward, & Co.  
Volcanic Aeration Co.

## AGNCIESABROAD

Australian Drug Co. Bolssy  
Beynon & Co. Kempthorne, Prosser & Co.  
Lemon, G. B., & Co. (N.Z.)  
Peake, Allen & Co.  
Taylor & Colledge

## ALKALOIDS

Howards & Sons (Cinchona)  
Macfarlan, J. F., & Co.  
Smith, T. H., & Co.

## AMMONIA

May & Baker, Lim.  
White, A., & Sons  
Woolley, Sons & Co.

## ANALYSIS

Sutton, F., &amp; Co.

## APPARATUS

Bennett, Sons & Shears  
Berend, O., & Co.  
Woolley, J., Sons & Co.

## ASTHMA CURE

Potter &amp; Clarke

## BAKING POWDER

Goodall, Backhouse &amp; Co.

## BATH &amp; FRESH GLOVES

Maw, S., Son & Thompson  
Solport Bros.  
Wood, Vincent

## BATH SALTS

Tidman &amp; Son, Lim. (Sea Salt)

## BEESWAX

Bowdler & Co.  
Evans, Sons & Co.  
Kemp & Son  
Leonhard, T.

## BICARB. SODA

Brunner, Mond & Co., Lim.  
Howards & Sons  
May & Baker, Lim.

## BIPALATINOLIDS

Oppenheimer, Son &amp; Co., Lim.

## BISMUTH PREP.

Hearon, Squire & Francis  
Hewlett & Sons  
Howards & Sons

## BOOKS

Churchill, J. & A.  
Hudson & Son  
Lewis, H. R.

## BORAX

Howards &amp; Sons

## BRUSHES

Addis & Son (Tooth)  
Evans, Sons & Co.  
Hovenden & Sons  
Kent, G. B., & Sons

## BOTTLES

Ayrton & Saunders  
Barnett & Foster  
Barrett, R. H.  
Bratby & Hinchliffe, Lim.  
Breffits, Lim.  
Gilbertson, H., & Sons  
Hearn, Wright & Co.  
Isaacs & Co.  
Kilner Bros.  
Lynch & Co. (Lim. (Salts)  
Maw, S., Son & Thompson  
Poths, H., & Co.  
Stipendium Stopper Co., Lim.  
Toogood, W. | Youlton, E.  
Volcanic Aeration Co.  
York Glass Co., Lim.

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Ayrton & Saunders  
Evans, Sons & Co.  
Kent, G. B., & Son  
Kilner Bros.  
Kinnross & Black  
Patent Stopper, Box, and  
Stamping Co., Lim. (Tin)  
Robinson & Sons  
Tintplate Decorating Co.

## BUNSEN BURNERS

Berend &amp; Co.

## BUTTER COLR, &amp;c.

Baker, J. W.  
Boulton, J., & Co., Lim.  
Müller & Co.  
Tomlinson & Hayward

## CACHETS

Christy, T., & Co.  
Cooper & Co.  
Sangers, J., & Sons

## CACHOUS

Bleasdale & Co.  
Jackson, T.  
Lloyd, T. H., & Co.  
Raines & Co. | Warrick Bros.

## CAMPHOR

Howards & Sons  
May & Baker, Lim.

## CAPSULES

Davies, Gibbins & Co.  
Droege, W., & Co.  
Duncan, Flockhart & Co.  
Evans, Lescher & Webb  
Hooper, E., & Co.  
Lloyd, T. Howard, & Co.  
Lofthouse & Saltmer  
Warrick Bros.

## CARBOLIC ACID

Stevenson, H. E., &amp; Co.

## CARBONIC ACID GAS

Carbonic Acid Gas Co.

## CSCA SAGRADA

Anderson & Co.  
Duncan, Flockhart & Co.  
Evans, Lescher & Webb  
Ferris & Co.  
Harker, Staggs & Morgan  
Moss, J., & Co.  
Parke, Davis & Co.

## CHEMICALS

Boehm, Fredk.  
Boehringer, C. F., & Sohne  
Boniton, J., & Co., Lim.  
Brunner, Mond & Co., Lim.  
Davy, Hill & Son, Yates & Hicks  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Farbonfabriken (Bayer & Co.)  
Goodall, Backhouse & Co.  
Graf, F.  
Howards & Sons (Pharm.)  
Kirkpatrick, Barr & Guthrie  
Lofthouse & Saltmer  
Macfarlan, J. F., & Co.  
May & Baker, Lim.  
Moss & Co.  
Oppenheimer, Son & Co.  
Poppelreuter, W.  
Sanitas Co., Lim.  
Scottish Acid & Alkali Co., Ld.  
Smith, T. H., & Co.  
Stevenson, J. E., & Co.  
Tyler, T., & Co.  
Washington Chemical Co.  
White, A., & Sons  
Zimmermann A. & M.

## CASTOR OIL

United British Castor Oil Co., Lim.

## CERESINE WAX

Boehm, Fredk.

## CHALK, PRECIP.

Levanor &amp; Co.

## CHECK TILLS

O'Brien, T.

## CHEST PROTECTRS

Stokes, G. R., &amp; Co., Lim.

## CHLORIDE OF LIME

Liverpool Patent Lint Co.,

## CHLOROFORM

Lynch &amp; Co., Lim.

## CINCHONA BARK

Maw, S., Son &amp; Thompson

## COCA WINE

Newbery, F., &amp; Sons

## CHLORODYNE

Schutze &amp; Co.

## CHLOROFORM

Solport Bros.

## CHLOROFORM

Wood, Vincent

## CHLOROFORM

Davenport (Browne's)

## CHLOROFORM

Liverpool Patent Lint Co.,

## CHLOROFORM

Lynch &amp; Co., Lim.

## CHLOROFORM

Maw, S., Son &amp; Thompson

## CHLOROFORM

Newbery, F., &amp; Sons

## CHLOROFORM

Schutze &amp; Co.

## CHLOROFORM

Solport Bros.

## CHLOROFORM

Wood, Vincent

## CHLOROFORM

Davenport (Browne's)

## CHLOROFORM

Liverpool Patent Lint Co.,

**COD-LIVER OIL**

Allen & Hanburys  
Burroughs, Wellcome & Co.  
Cuthbert, R.  
Davies, Gibbins & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Harker, Stagg & Morgan  
Hill, A. S., & Son  
Kemp & Son  
Lofthouse & Saltmer  
Lorimer & Co.  
Moller, P. | Moss, J., & Co.  
Morrison, R., & Co.  
Oppenheimer, Son & Co., Lim  
Smith, T. & H., & Co.  
Spratt's Patent (Dog Cakes)  
Scott's Emulsion  
Southall, Bros. & Barclay  
Stevenson, H. E., & Co.  
Wright, Layman & Umney

**COMP. MEDICINES**

Allen & Hanburys  
Blyton, Astley & Co.  
Burroughs, Wellcome & Co.  
Davies, Gibbins & Co.  
Hooper, B., & Co. | Leo & Co.  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.

**CONCENT. LIQRS**

Baies Bros., & Co.  
Davies, Gibbins & Co.  
Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Oppenheimer, Son & Co.

**CONFECTIONERY**

Blyton, Astley & Co.  
Gibson & Sons  
Guest, T., & Co. | Hillaby, J.

**CORKS**

Rinrose & Cobb

**CORN CURES**

Beecham & Son

**COTTON WOOL**

Robinson & Sons (Absorbent)

**CRSHD LINSEED**

Evans, Gadd & Co.  
Mumford, G. S.

**CYDER**

Symons, J., & Co., Lim.

**DETERGENTS, &c.**

Beecham  
Bromley, H., & Co.  
Hovenden & Sons  
Jevons & Brown  
Stevens, P. A.  
Sutton, O., & Co. | Wilson, A.  
Woods, W. (Arecia Nut)  
Wright, Chas., & Co., Lim.

**DENTISTRY**

Browning, A. J.  
Fentiman, A. G.  
Fentiman & Co.

**"DIMATOS"**

Southall Bros. & Barclay

**DISINFECTANTS**

Beecham & Co.  
Calvert, F. C., & Co.  
Dunsel Bros.  
Fletcher, Fletcher & Co.  
Government Sanitary Co.  
Granville, A., & Co.  
Hebden, W. C. | "Izal"  
Jevons Sanitary Compounds Co.  
Kay Bros., Lim.  
Kuhn, B. (Chinosol, Krescchine)  
Mackey, Mackey & Co.  
May & Baker, Lim.  
National Chemical Co.  
Ness & Co.  
"Nestor" Sanitary Fluid Co.  
Read, Holiday & Co.  
Sanitas Co., Lim.  
Steel, J. C., & Co.  
Tusson's Disinfectants Co., Ltd.  
Tyler, T., & Co.

**DOG MEDICINES**

Lloyd, T. Howard  
Spratt's Patent, Lim.

**DRUGGISTS' SUN.**

Ayrton & Saunders  
Barclay & Sons, Lim.  
Bleasdale & Co., Lim.  
Dailley & Wilkinson  
Cartwright, A. S.  
Evans, Lescher & Webb  
Evans, Sons & Co. (Savars)  
Fordham, W. B., & Sons, Lim.  
Hovenden & Sons  
Kahler, G., & Co.  
Kay Bros., Lim.  
Marshall, Lim.  
Maw, S., Son & Thompson  
May, Roberts & Co.  
Moise, B. F., Lim.  
Newbery, F., & Sons  
Potter & Sacker  
Quelch, H. C.  
Sanger & Sons | Schutze & Co.  
Southall Bros. & Barclay  
Tidman & Son | Toogood, W.  
Wood, Vincent

**DRUGS**

Allen, S., & Sons (Grinders)  
Beynon & Co.  
Bleasdale & Co., Lim.  
Davies, Gibbins & Co.  
Dieterich, Eugen  
Kahler, G., & Co.  
Kuhn, E.  
Lofthouse & Saltmer  
Oppenheimer, Son & Co.  
Phillips & Co. | (Grinders)  
Poppelreuter, W.  
Stevenson, H. E., & Co.

**DYES**

Ayrton & Saunders  
Maypole Soap Co., Lim.

**EAU DE COLOGNE**

Farina, J. M. | Muhlen, F.  
Van Oppen & Co.

**ECZEMA**

Cullwick's Specialities

**EMBROCATIONS**

Bow's Liniment  
Bryant & Sons  
Elliman, Sons & Co.  
Harvey & Co.  
Tusson's Disinfectants Co., Ltd.

**ENEMAS**

British-American Ball Nozzle  
Evans, Sons & Co. | Co.  
Lynch & Co., Lim.  
Sanger & Son | Wood, Vincent

**ENGRAVERS**

Corsan, J. R.

**ESSENCES**

Boulton, J., & Co., Lim.  
Bovril, Lim. (Beech)  
Bryant & Hinchcliffe, Lim.  
Bush, W. J., & Co.  
Delbanco & Co.  
Fletcher, Fletcher & Co.  
Goodall, Backhouse & Co.  
May & Baker, Lim.  
Newhall & Mason  
Stevenson & Howell  
To d, A. M.  
Tyer, P. (Anchovies)  
Woolley, Sons & Co.

**ESSENTIAL OILS**

Allen, S., Sons  
Blackwell, Hayes & Spilsbury  
Boehm, Fredk.  
Bush, W. J., & Co.  
Delbanco & Co.  
Evans, Sons & Co.  
Feustil, Friedrich  
Frankenstein, S. M., & Co.  
Jackson, J., & Co.  
Jenard, Gazan & Dourmin  
Kahler, G., & Co.  
Lewig, Mark, Lim.  
Lofthouse & Saltmer  
May & Baker, Lim.  
Poppelreuter, W.  
Ransom, Wm., & Sons  
Raynaud, Claude, & Co.  
Sanitas Co., Lim.  
Stevenson, H. E., & Co.  
Stevenson & Howell  
Todd, A. M.  
Treatt, R. C. | Warrick Bros.  
Wright, Layman & Umney

**ETHER**

Duncan, Flockhart & Co.  
Howards & Sons  
Macfarlan, J. F., & Co.  
May & Baker, Lim.  
Robbins, J., & Co.  
Tyler, T., & Co.  
White, A., & Sons  
Woolley, Sons & Co.  
Wright, Layman & Umney

**EUCALYPTUS OIL**

Drysdale, J. W., & Co.  
Sanitas Co., Lim.  
Tussonian Eucalyptus Oil Co.

**EXTRACT, FLUID**

Allen & Hanburys  
Allen, G., & Co.  
Bleasdale & Co., Lim.  
Burgoyne, Burdidge & Co.  
Davies, Gibbins & Co.  
Evans, Sons & Co.  
Fletcher, Fletcher & Co.  
Hearon, Squire & Francis  
Hooper, B., & Co.  
Lloyd, T. Howard, & Co.  
Moss, J., & Co.  
Parke, Davis & Co.  
Potter & Clarke  
Ransom, W., & Son  
Wright, Layman & Umney

**EXTRACT MEAT**

Armour & Co. | Brand, Co.  
Liebig Co. | Liquor Carnis Co.  
Allen, G., & Co.  
Hillaby, J.  
Lorimer & Co. | "Solazzi"  
Ransom, W., & Son

**EXTRACTS, SOLID**

Allen, G., & Co.

**FEED BOTTLES**

Burroughs, Wellcome & Co.  
(Thermo Safe)  
Evans, Sons & Co.  
Gibson, R., & Sons (Manfrs.)  
Guest, T., & Co., Lim.  
Hill & Son | Lorimer & Co.  
Raines, & Co.  
"Solazzi" | Warrick Bros.

**FLINT**

Burgoyne, Burdidge & Co.  
Christy, T., & Co.  
Liverpool, Lim. Co.  
Maw, S., Son & Thompson  
Newsome, C.  
Robinson & Sons

**LIQUORS**

Blackwell, Hayes & Spilsbury  
Davies, Gibbins & Co.  
Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Moss, John, & Co.  
Oppenheimer, Son & Co., Lim.  
Stevenson, H. E., & Co.

**LIQUORICE**

Evans, Sons & Co. (Savarini)  
Frankenstein, S. M., & Co.  
Hillaby, J.  
Lorimer & Co. | "Solazzi"  
Ransom, W., & Son

**LONGEVES**

Allen & Hanburys  
Davies, Gibbins & Co.  
Gibson, R., & Sons (Manfrs.)  
Guest, T., & Co., Lim.  
Hill & Son | Lorimer & Co.  
Raines, & Co.  
"Solazzi" | Warrick Bros.

**LUNG PRESERVERS**

Zimmer & Co.

**MACHINERY**

Bennett, Sons & Shears, Lim.  
Gardner, W., & Sons  
Melin, C. | Pindar, J. W.  
Volcanic Aeration Co.  
Werner, Pfeiderer & Perkins, Lim.

**MAGNESIA**

Bleasdale & Co., Lim.  
Davies, Gibbins & Co.  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Henry, T. & W. (Calcined)  
Lloyd, T. Howard, & Co.  
Washington Chemical Co.

**MALT EXTRACT, &c**

Allen & Hanburys  
Anderson & Co.  
Blackwell, Hayes & Spilsbury  
Burroughs, Wellcome & Co.  
(Kepers)  
Davies, Gibbins & Co.  
Distillers' Co., Lim.  
Evans, Gadd & Co.  
English Diastatic Malt Extract Co., Lim.  
Hearon, Squire & Francis  
Lorimer & Co. | Moss, J., & Co.  
Oppenheimer, Son & Co., Lim.  
Parke, Davis & Co.  
Raines, & Co.  
Raines, Clark & Co.  
Robinson & Co.  
Standard Malt Ext. Co., Lim.

**MANICURE**

Hovenden & Sons

**MARKING INKS**

Bond (Daughter of the late John Ink and Pencils)

**GELATINES**

Boehm, F.

**GLYCERINE**

Blyton, Astley & Co. (Pastilles)  
Boehm, F. | Fink & Co.  
Price's Candle Co., Lim.

**GRANULAR PREP.**

Bishop, A., & Sons  
Boulton, J., & Co.  
Davies, Gibbins & Co.  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Hearon, Squire & Francis  
Lloyd, T. Howard & Co.  
Lofthouse & Saltmer  
Tyler, T., & Co.  
Wright, Layman & Umney

**GUM**

Fink & Co. (Arabic, &c.)  
Graf, F.

**HAIR PREP.**

Newhall & Mason  
Chesebrough Co.  
Depilene Co.  
Edwards & Co.  
Thiellay, E. H.  
Truett, F. P., Lim.

**HERB BEER EXTS.**

Boehm, Fredk.  
Potter & Clarke

**HOMOEOPATHIC**

Keene & Ashwell  
Leath & Ross  
Watson & Wates

**HONEY**

White, G., & Sons

**HYPOPHOSPHES**

Duncan, Flockhart & Co.  
Fellows  
Fletcher, Fletcher & Co.  
Tyler, T., & Co.

**INHALERS**

Burroughs, Wellcome & Co.  
Krohn & Seemann  
Lynch & Co., Lim.  
Sanitas Co., Lim.

**INSECTICIDES**

Barclay & Sons, Lim.  
Bleasdale, J. | Jackson, T.  
Rudkin's Moth Bricks  
Sanitas Co., Lim.  
Tunbridge & Wright

**JELLOIDS**

Warrick Bros.

**KETCHUP**

Tyler, P.

**LARD**

Ewen, J., & Sons  
Lofthouse & Saltmer  
Jackson, J., & Co.

**LAVER WATER**

Jackson, J., & Co.

**LEECHES**

Fitch & Nottingham

**LINT**

Burgoyne, Burdidge & Co.  
Christy, T., & Co.  
Liverpool, Lim. Co.  
Maw, S., Son & Thompson  
Newsome, C.  
Robinson & Sons

**LIQUORS**

Blackwell, Hayes & Spilsbury  
Davies, Gibbins & Co.  
Fletcher, Fletcher & Co.  
Lloyd, T. Howard, & Co.  
Moss, John, & Co.  
Oppenheimer, Son & Co., Lim.  
Stevenson, H. E., & Co.

**LIQUORICE**

Evans, Sons & Co. (Savarini)  
Frankenstein, S. M., & Co.  
Hillaby, J.  
Lorimer & Co. | "Solazzi"  
Ransom, W., & Son

**LONGEVES**

Allen & Hanburys  
Davies, Gibbins & Co.  
Gibson, R., & Sons (Manfrs.)  
Guest, T., & Co., Lim.  
Hill & Son | Lorimer & Co.  
Raines, & Co.  
"Solazzi" | Warrick Bros.

**LUNG PRESERVERS**

Zimmer & Co.

**MACHINERY**

Bennett, Sons & Shears, Lim.  
Gardner, W., & Sons  
Melin, C. | Pindar, J. W.  
Volcanic Aeration Co.  
Werner, Pfeiderer & Perkins, Lim.

**MAGNESIA**

Bleasdale & Co., Lim.  
Davies, Gibbins & Co.  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Henry, T. & W. (Calcined)  
Lloyd, T. Howard, & Co.  
Washington Chemical Co.

**MALT EXTRACT, &c**

Allen & Hanburys  
Anderson & Co.  
Blackwell, Hayes & Spilsbury  
Burroughs, Wellcome & Co.  
(Kepers)  
Davies, Gibbins & Co.  
Distillers' Co., Lim.  
Evans, Gadd & Co.  
English Diastatic Malt Extract Co., Lim.  
Hearon, Squire & Francis  
Lorimer & Co. | Moss, J., & Co.  
Oppenheimer, Son & Co., Lim.  
Parke, Davis & Co.  
Raines, & Co.  
Raines, Clark & Co.  
Robinson & Co.  
Standard Malt Ext. Co., Lim.

**MANICURE**

Hovenden & Sons

**MARKING INKS**

Bond (Daughter of the late John Ink and Pencils)

**MEDICINE CHSTS**

Burroughs, Wellcome & Co.  
Day, Son & Hewitt (Veterinary)  
Day & Sons (Veterinary)

**MENTHOL**

Ayrton & Saunders  
Evans, Lescher & Webb  
Maw, S., Son & Thompson  
Shirley Bros. | Tyler, P.

**MERCURIALS**

Howards & Sons  
May & Baker, Lim.  
Tyler, T., & Co.

**METH. SPIRITS, &c.**

Boord & Son | Burrough, J.  
Jones & Co. | Phillips, G., & Co.  
Smith, S., & Co.  
Warren, A., & J.

**METHYLENE**

Robbins, J., & Co.

**MICROSCOPES**

Dartton, F., & Co.  
Hicks, J. J.

**MILK**

Harkesley, T. (Sterilize)  
Horlick & Co.  
Nestlé, H. (Condensed)

**MORPHIA**

Beynon & Co.  
Macfarlan, J. F., & Co.  
Smith, T. & H., & Co.

**OILS, &c.**

Anglo American Drug Co.  
Calvert Bros. & Co.  
Charles, Capel & Leonard  
Hooper, B., & Co. (Santal Wood)

**OINTMENT**

Burroughs, Wellcome & Co.  
(Lanoline)  
Chesebrough Co. (Vaseline)  
Davies, Gibbins & Co.  
Lloyd, T. Howard, & Co.  
Stevenson, H. E., & Co.

**OPTICIANS**

Bolwright & Grey  
Dartton, F., & Co.  
Raphael, J., & Co.

**OXIDE OF ZINC**

Hubbuck, T., & Son, Lim.  
Stevenson, H. E., & Co.

**PALATINOLDS**

Oppenheimer, Son & Co., Lim.

**PASTILLES**

Jackson, T.

**PAT. MEDCNS, &c.**

Anglo American Drug Co., Ltd.  
Antikamnia Chemical Co.  
Atkins' Lung Healer  
Barclay & Sons, Lim.  
Beecham, T. (Pills)  
Bow's, Dr. Liniment  
Clarke's Blood Mixture  
"Daisy" Headache Powders  
Lockyer & Co.  
Evans, Lescher & Webb  
Evans, Sons & Co.  
Fassett & Johnson  
Fanning (Powders)  
Goodall, Backhouse & Co.  
Guy's Tonic  
Holloway (Pills and Oint.)  
Hovenden & Sons  
Lator (Phosphovine, &c.)  
May, Roberts & Co.  
Newbery, F., & Sons  
Richards, J. M.  
Roberts & Co.  
Wilson, A. (Bunter's Nervine)

**PENS**

Warrick Bros.

**PEPSIN &c.**

Armour & Co.  
Burroughs, Wellcome & Co.  
Cerebos Limited (Pepsalia)  
Kuhn, B. (Papain Finkler)  
Newbery, F., & Sons (Inglavin)  
Oppenheimer, Son & Co.  
Parke, Davis & Co.  
Stevenson, H. E., & Co.

**PERFUMERY.**

Barclay & Sons, Lim.  
Bleasdale & Co.  
Blondeau & Cie. | Boehm, F.  
Brager, L.  
Dristow, T. F., & Co.  
Burgoyne, Burdidge & Co.  
Burroughs, Wellcome & Co.  
Bush, W. J., & Co.  
Carmichael, M. W.  
Chesebrough Co.  
Cook, E., & Co.  
Corby, Stacey & Co.  
Crown Perfumery Co.  
Evans, Gadd & Co.  
Evans, Sons & Co.  
Ewen, J., & Sons | Farina, J. M.  
Frankenstein, S. M., & Co.  
Grossmith, Son & Co.  
Guy's Tonic  
Hovenden & Sons  
Lanoline  
Lynch & Co., Lim.  
Moise, B. F., Lim.  
Mulhens, F.  
Newbery, F., & Sons (Derdoes)  
Pens, & Co. | Fink & Co.  
Price's Patent Candle Co.  
Sanitas Co., Lim.  
Schutze, F., & Co.  
Sharp Bros. Soap & Perfumery Co., Lim.  
Sinclair, Jas., & Son  
Tidman & Son | Treatt, R. C.  
Truett, H. P., Lim.  
Varrick, Fredk.  
West, T. (Olell's Mona)  
Woolley, Sons & Co. (Powder)  
Wright, Layman & Umney

**PILLS, Coated, &c.**

Allen & Hanburys  
Anderson & Co. (Savars)  
Beecham, Thomas  
Bleasdale & Co., Lim.  
Box, W. H.  
Davies, Gibbins & Co.  
Duncan, Flockhart & Co.  
Evans, Gadd & Co.  
Hearon, Squire & Francis  
Hill, A. S., & Son | Holloway's  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Scott's, Dr.  
Ward, S. (Pearl Coated)  
Warner, W. H., & Co. (Coated)  
Wileys, Lim.

**PLASTERS**

Alcock  
De St. Dalmas, A.  
Evans, Sons & Co.  
Seabury & Johnson  
Solport Bros. (Court)

**POLISHING**

Bradley & Bourdas (Albatum)  
Diamond Emery Co.  
Fordham, W. B., & Sons, Lim.

**PORCELAIN GDS**

Toogood (E.C. Pots, regist.)

**POULTRY FOOD**

Spratt's Patent, Lim.

**PRINTING**

Fowers

**BENNET**

Duncan, Flockhart & Co.  
Lorimer & Co.  
Miller & Co.  
Tomlinson & Hayward

**RUBBER GOODS**

Powell & Barstow

**SACCHARINE**

Reitmeier & Co.

**SALICIN**

Macfarlan & Co.  
Smith, T. & H., & Co.

**SALICYLIC ACID**

Burgoyne, Burbidges & Co.  
Zimmermann, A. & M.

**SARSAPARILLA**

Potter & Clarke

**SAUCES, PICKLES**

Goodall, Backhouse & Co.  
Maw, S., Son & Thompson  
Tyrer, P.

**SCHOOLS, &c.**

Central (Edinburgh)  
City School (Skerry's)  
Glasgow School of Pharmacy  
Liverpool School  
Manchester Col. of Pharmacy  
Metropolitan Col. of Pharmacy  
North of England School  
Northern College of Pharmacy  
Royal Dispensary (Edinburgh)  
Sheffield College of Pharmacy  
South London School of  
Pharmacy, Lim.  
Westminster College

**SCIENTIFIC****INSTRUMENTS**

Darton, Co. | Hicks, J. J.  
SEA SALT  
Tidman & Son, Lim.

**SEEDS**

Brook, Parker & Co.  
McCansland, S.  
Potter & Clarke  
Spratt's Patent, Lim. (Bird)

**SEIDLITZ POWDERS**

Davies, Gibbins & Co.  
Hors & Co. | May, Roberts & Co.

**SELTZOGENES**

Bratby & Hinchliffe, Lim.  
May, Roberts & Co.  
Volcanic Aeration Co.

**SERUM**

Greiff, R. W., & Co.

**SHAVING**

Hovenden & Sons (Euxesels)  
Lloyd, A., & Co. (A. S. Lloyd's  
Euxesels)  
Truefitt, H. P., Lim.

**SHEEP DIP**

Fletcher Bros & Co.  
Harescough & Co.  
Jeyes' Sanitary Compounds Co.  
Kühn, B. (Kresochine  
Ness & Co.  
Sanitas Co., Lim.

**SHOP FITTERS**

Bowling & Govier

Bygrave, J. & W.

Evans, Sons & Co.

Josephs, C., & Co.

Josephs, Philip

Mills, H.

Treble, G., & Son

Yates, W. S.

**SOAP**

Blondeau et Cie. (Vinolia)

Brionney, H., & Co.

Cook, E., & Co.

Crosfield, J., & Sons, Lim.

Gibbs, D., & W. (Medicated)

Huggin's Soap Works, Lim

Jameson, W. (Arsenical)

Jeyes' Sanitary Compounds Co.

Mackenzie's, Jr. (Arsenical)

Maypole Soap Co., Lim.

Muhlen, F.

Pears, A. & F., Lim.

Sanitas Co., Lim.

Sharp Bros. Soap, &c., Co., Ld.

Sinclair, J., & Son

Tidman & Son

Wright, Layman & Umney

**SPECTACLES**

Potwright & Grey

Darton, F., & Co.

Raphael, J., & Co

**SPONGES**

Cohen, I. & M.

Cresswell Bros. & Schmits

Peterson, M., & Co.

**STAMPS (RUBBER)**

Hickiss, J.

**STARCH**

Critchley (Gloss)

Hebden, W. C.

**STEEL BARRELS**

Iron and Steel Plant Co., Lim.

**STOPPERS**

Austin & Co. (Sprinklers)

Barnett & Foster | Mellin, C.

Patent Stopper, Box, and

Stamping Co., Lim.

Stipendium Stopper Co., Lim.

**STOVES**

Clark, S., & Co., Lim

**SUGAR**

Macfie & Sons

**SUGAR OF MILK**

Boehm, Fredk.

**SURGICAL**

Accrington Surgical Appliance

Co.

Ayrton & Saunders

Bailey, W. H., & Son

Barclay & Sons, Lim. (Co.

British-American Ball Nozzle

Burgoyne, Burbidges & Co.

Cocking, J. T.

Eschmann Bros. & Walsh

Ferris & Co.

Haywood, J. H.

Ickringill's Hygienic Cloth

Syndicate, Lim.

Kronhe & Sesemann

Liverpool Patent Lint Co.

Lynch & Co., Lim.

Macfarlan, J. F., & Co.

Manson, R.

Maw, S., Son & Thompson

Mine, J.

Oppenheimer, Son & Co.

Powell & Barstow

Quelch, H. C.

Robinson & Sons

Sanitas Co., Lim.

Schulze, F., & Co.

Victoria Rubber Co

Wood, Vincent

Woodruff, T.

**SYPHONS**

Barnett & Foster

Bratby & Hinchliffe, Lim.

British Syphon Mfg. Co.

Chemists' Aerated and Mineral

Waters Association, Lim.

Geraut, E., & Co.

Ildis & Co., Lim.

Kilner Bros. | Mellin, C.

**SYRUPS**

Beckett, W., Sons & Co.

Blyton, Astley & Co.

Fletcher, Fletcher & Co.

(Liquors)

Stevenson & Howell

Volcanic Aeration Co.

**TABLETS**

Corsan, J. R. (Advertising)

Davies, Gibbins & Co.

**TEA**

Pearse & Meeking

Tower Tea, Lim.

**THERMOMETERS**

Ayrton & Saunders

Bailey, W. H., & Son

Darton, F., & Co.

Hicks, J. J.

**TEETHING PADS**

Cartwright, A. S.

Marriott, E., & Co.

**TOBACCO & CIGRS**

Singleton & Cole, Lim.

**TINCTURES**

Beetham & Son

Davies, Gibbins & Co.

Evans, Sons & Co.

Hewlett, C. J., & Son

Lloyd, T. Howard, & Co.

Moss, John, & Co.

Parke, Davis & Co.

Sinclair, Phillips & Co.

Wyleys, Lim.

**TOILET**

Ayrton & Saunders

Beetham & Son (Lanoline)

Burroughs, Wellcome & Co.

Crosfield, J., & Sons, Lim.

Dee Oil Co., Lim.

Hovenden & Sons

Lynch & Co., Lim.

Maw, S., Son & Thompson

Moise, B. F., Lim.

Peacock's Ovaline Soap Co.

Pinnacle Soap Stand Co.

Sanitas Co., Lim. (Co. Lim.

Sharp Bros. Soap & Perfumery

Southall Bros. & Barclay

Squire & Sons

Tidman & Son, Lim.

Townsend, J. (Paper)

Truefitt, H.

**TOOTH PASTE**

Beecham, T.

Jewsbury & Brown

Lathen & Co.

Maw, S., Son & Thompson

Parke, Davis & Co.

Sutton, O., & Co.

Wilson, A. (Bunter's)

Woods, M. (Areca)

**TRADE MARKS**

Brown, T. B.

**URETHANE**

Howards & Sons

**VACCINATION**

Maw, S., Son & Thompson

Vaccine Association (Lymph)

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Berdoo & Co. | Brett, F. J.

Crocker, G. B., & Co.

Ferguson & Osborne

Orridge & Co.

Tomlinson, Thos., & Son

**VASELINE**

Chesbrough Co.

**VETERINARY**

Bird & Storey

Dawes, G. F. | Day & Sons

Day, Son & Hewitt

Elliman, Sons & Co.

Harvey & Co. | Leng, A., & Co

Lloyd, T. Howard, & Co.

Rookledge, F. E.

Sanitas Co., Ld | Spratt's (Dogs)

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**VINEGAR**

Grimble & Co.

**VINOLIA Superfatt'd**

Blondeau et Cie.

**WEED KILLER**

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Mark Smith, Ltd.

Sanitas Co., Lim.

Tomlinson & Hayward

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Allen, S., & Son | Balss Bros

Barron, Harveys & Co.

Bleasdale & Co., Lim.

Brook, Parker & Co. (Botanic)

Burgoyne, Burbidges & Co.

Bush, W. J., & Co.

Davies, Gibbins & Co.

Davy, Hill & Son, Yates & Hicks

Evans, Gadd & Co.

Evans, Sons & Co.

Evans, Lescher & Webb

Ferris & Co. | Graf, F.

Goodall, Backhouse & Co.

Harker, Stagg & Morgan

Heaton, Squire & Francis

Hewlett & Son

Hill, A. S., & Son

Kemp, Wm., & Son

Lloyd, T. Howard, & Co.

Lofthouse & Saltmer

Macfarlan, J. F., & Co.

Potter & Clark

Raines & Co.

Raines, Clark & Co.

Smith, B. A., & Co.

Stevenson, H. E., & Co.

Taylor & Colledge

Willows, Francis & Butler

Woolley, Jas. Sons & Co.

Wright, Layman & Umney

Wyleys, Lim.

**WINES, SPIRITS,****BEER, &c.**

Burgoyne, P. B., & Co.

Burroughs, J.

Coleman & Co., Lim.

French Hygienic Socy. (Coca)

Goodall, Backhouse & Co.

Holloway, E. A.

Mead Manufacturing Co. (Vin

Kafra)

Miller, A., & Co. (Orange)

Phillips, G., & Co. | Robinson, B

Smith, S., & Co. (Orange)

Stevenson, H. E., & Co

Symons, J., & Co., Lim.

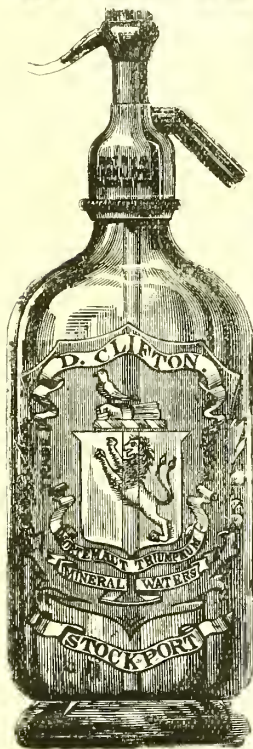
Warren, A. & J.

Whitbread & Co.

Wilcox & Co

</

# SYPHONS & SELTZOGENES



Wm. J. BARRE JOHNSTONE & CO., 30 Loftus St., Sydney, N.W.  
Agents for New South Wales, Queensland, and New Zealand.  
Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria.  
Agents for Victoria, South and West Australia, and Tasmania.

## SODAWATER MACHINERY

AND APPLIANCES  
**BRATBY & HINCHLIFFE LTD**  
• ANCOATS 146 MINORIES  
**MANCHESTER LONDON**

81 ROBERTSON STREET, GLASGOW.

### PRICES.

**SYPHONS** - 1/6, 1/8, and 1/10 each

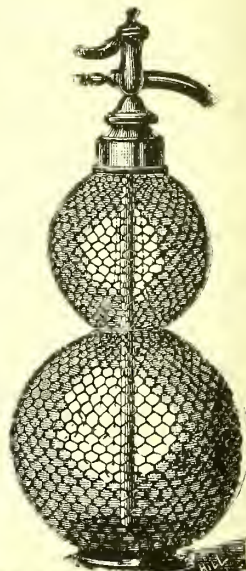
### SELTZOGENES

1	2	3	4	5	6	plnt.
6/-	6/8	7/6	8/6	10/6	16/-	each

Including two funnels and stopper for charging.  
The tops of these Seltzogenes are made of pure black tin, guaranteed.

American Agents—For New York and East, Wm. G. SHUTEWA.  
For Chicago and West, VICTOR BARONET, 400 Dearborn St., Chicago.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



# A. MILLAR & CO., LTD., DUBLIN. PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopoeia.



A COMPLETE APPARATUS,  
CAPABLE OF PRODUCING  
OVER

**300 DOZ. BOTTLES**

of Aerated Water per day,  
at a minimum of cost,  
from

**£20.**

**SODA-WATER MACHINERY**  
AND ALL APPLIANCES FOR THE TRADE.  
BOTTLES, SYPHONS,  
NO DANGER. NO MESS.

Write for  
ILLUSTRATED  
CATALOGUE,  
Post Free upon Application.

**BARNETT & FOSTER**

NIAGARA WORKS,

26<sup>th</sup> EAGLE WHARF ROAD, LONDON, N.

9 Gold Medals. 44 Highest Awards.



# NATURAL MINERAL WATERS.

PACKING  
FREE.**INGRAM & ROYLE LTD.**CARRIAGE  
PAID.

LONDON—EAST PAUL'S WHARF, 26 UPPER THAMES ST.

**VICHY**LIVERPOOL:  
19 South John  
Street.BRISTOL:  
80 Redcliff St.**HUNYADI-  
JÁNOS**

NAME	Per Dozen		Original Packages				NAME	Per Dozen		Original Packages			
	Bots.	$\frac{1}{2}$ Bots	Bottles	$\frac{1}{2}$ Bottles				Bots.	$\frac{1}{2}$ Bots	Bottles	$\frac{1}{2}$ Bottles		
Æsculap ... ..	15/-	12/-	25	37/-	50	50/-	Levico ... ..	15/-	—	—	—	—	—
Apollinaris ... ..	6/-	5/-	50	23/-	107	36/-	Pullna ... ..	12/-	8/-	40	36/-	40	25/-
Bourboule (La) ... ..	11/-	—	50	42/-	—	—	Reginaris ... ..	5/6	4/6	50	21/-	50	17/-
Carlsbad ... ..	12/-	—	50	46/-	—	—	Reisdorf ... ..	6/-	—	50	25/-	—	—
Condal ... ..	—	11/-	—	—	50	53/-	Rosbach ... ..	5/6	4/-	50	20/-	100	32/-
Contrezeville ... ..	9/-	—	50	35/-	—	—	Royat ... ..	9/-	—	50	34/-	—	—
Flitwick ... ..	24/-	15/-	—	—	—	—	Rubinat ... ..	15/-	8/-	25	30/-	100	60/-
Franz-Josef ... ..	12/-	10/-	25	22/6	50	35/-	St. Galmier ... ..	6/-	4/6	50	22/-	100	34/-
Friedrichshall ... ..	13/-	10/-	25	25/-	50	40/-	St. Marco ... ..	11/-	6/6	50	42/-	100	52/-
Gerolstein ... ..	5/-	4/-	50	20/-	50	15/-	Salutaris (including bottles)	4/-	2/6	—	—	—	—
<b>HUNYADI-JÁNOS</b> ... ..	12/-	10/-	25	22/6	50	35/-	Selters... ..	6/-	4/6	50	24/-	50	17/-
Johannis ... ..	5/6	4/-	50	21/-	100	32/6	Vals ... ..	8/6	—	50	33/-	—	—
Kronenquelle ... ..	9/-	—	50	36/-	—	—	<b>VICHY</b> (State Springs). "Celestins," "Hôpital," "Grande-Grille," &c. ...	8/6	6/6	50	33/-	50	25/-
Oberbrunnen ... ..	9/-	—	50	36/-	—	—							

CARRIAGE PAID excepting SALUTARIS.

DETAILED PRICE LIST AND PAMPHLET ON APPLICATION.

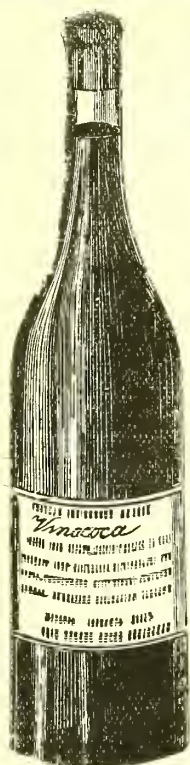
## IMITATED BUT NOT EQUALLED!!

**MASON'S**  
IS THE **ORIGINAL**  
**EXTRACT** OF **HERBS**

### No other Extract makes Beer like it!!

INVENTORS AND MANUFACTURERS—

**NEWBALL & MASON, NOTTINGHAM.**



# VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

## COCA LIQUEUR

The best Restorative,

The best Nerve Tonic,

The best Renewer of Health is

## ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR,  
COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA,  
COCA CHOCOLATE, COCA TOBACCO, &c.

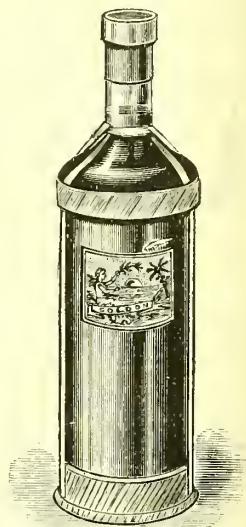
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## THE NEW VAPORISER, "OUR OWN."

ENGLISH MADE.

Prices from 15s. each; Eau de Lis, 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.



FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, LONDON, W.  
REGENT STREET,

**Re**

COLEMAN'S Wincarnis

COLEMAN'S Crown Imperial Invalid

Champagne

COLEMAN'S Coca Wine

COLEMAN'S Wincarnis with Quinine

COLEMAN'S Coca Wine with Quinine

The above Medicated Wines, with the exception of Wincarnis  
with Quinine and Coca Wine with Quinine, cannot be sold  
without a Foreign Wine Licence.

Under certain conditions Messrs. COLEMAN  
& CO., Limited, are prepared to Pay for a  
Foreign Wine Licence.

FOR PARTICULARS APPLY TO

MESSRS. COLEMAN & CO, LTD.

Wincarnis Works, NORWICH.

Secure this Agency! Look at the terms!

## HOLLOWAY'S

Sale or Return.

**33 $\frac{1}{3}$**  % discount.

## COCA WINE

Guaranteed made from the Leaf.

Carriage Paid.

Cases Free.

**THE BEST.** Write for Particulars,

E. A. HOLLOWAY, A.P.S., TORQUAY.

N.B.—We guarantee to create demand at once.

THE MOST ECONOMIC, CONVENIENT, &amp; PORTABLE FORM OF SOUP

# LAZENBY'S SOUP SQUARES

(MULLIGATAWNY, GRAVY, JULIENNE, ETC.)

FOR MAKING FRESH SOUP, OR IMPROVING HOME MADE STOCK.  
EACH SQUARE WILL PRODUCE

OF STRONG NUTRITIOUS SOUP

Prepared by **E. LAZENBY & SON. LTD** 18, Trinity St., LONDON, S.E.

## "LIVE, and LET LIVE."

THE FRAME FOOD CO., LTD., desire that all retailers should have a reasonable, living profit on the sale of "Frame Food" Preparations. To ensure this they have fixed minimum retail prices, below which they will not permit their goods to be sold. They also give no graduated discounts on large orders, but allow their highest discount on purchases of £2 value and upwards, thus placing all retailers upon the same terms.

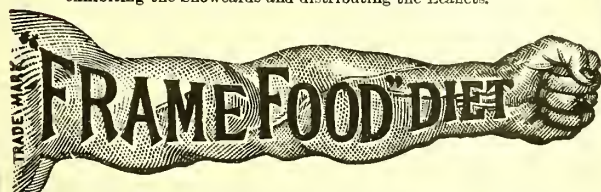
Goods sent carriage forward. No Packages charged or to return.

These terms ensure an average Profit of over 30 per cent. on goods sold at advertised prices, and of 20 per cent. at minimum prices.

Write for Trade Terms and Anti-cutting Agreement.

Satisfactory references or cash required for new customers.

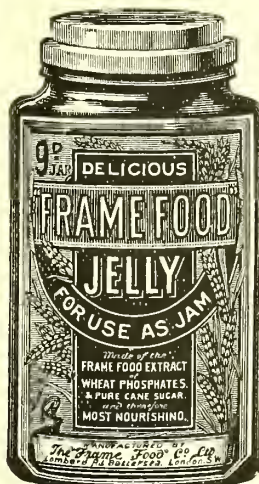
An Attractive FRAMED SHOWCARD, and Leaflets with Retailer's printed Address (in red ink), sent Carriage Free on application—(MENTION THIS PAPER). The Frame Food Co. trust that retailers will show their appreciation of the Company's efforts, to ensure them a reasonable profit on the sale of "Frame Food" Preparations, by exhibiting the Showcards and distributing the Leaflets.



FRAME FOOD CO., LTD., LOMBARD RD., BATTERSEA, LONDON, S.W.

## New & Improved Package.

LARGER PROFIT TO RETAILERS.



THE FRAME FOOD CO. have adopted a new air-tight covered Jar for "Frame Food" Jelly, which will ensure its keeping any length of time. In fixing the Retail and Trade Prices of the new package, they have taken the opportunity of securing a larger margin of Profit to Retailers, who will find it to their advantage to recommend the Jelly to their customers.

The 1s. and 7d. sizes are now withdrawn.

"Frame Food" Jelly possesses the nutritive and digestible properties of Malt Extract, and is much cheaper and more palatable.

Advertised Retail Price, 9d.;

Minimum Retail Price, 8½d.

TRADE TERMS ON APPLICATION.

# HOLY-ROOD TABLE WATER.



Shown by analysis to be equal to the best imported,  
and is **FAR MORE ECONOMICAL.**

Highly Commended by **LEADING MEDICAL AUTHORITIES**

"It is a well aerated and pleasant Table Water, without  
a trace of bitterness."—*British Medical Journal.*

**J. F. MACFARLAN & CO.**  
*Abbeyhill Chemical Works,*  
**EDINBURGH.**

# SELTZOGENE CHARGES

("MINERAL" BRAND).

**A NEW DEPARTURE.**  
**TARTARIC ACID SUPERSEDED**

(See this Journal, 19/12/96, page 830).

British Materials. Inorganic. No Field for Germ Growths.  
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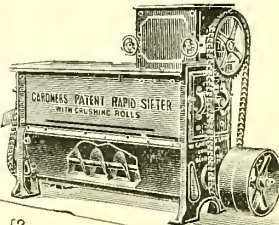
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28

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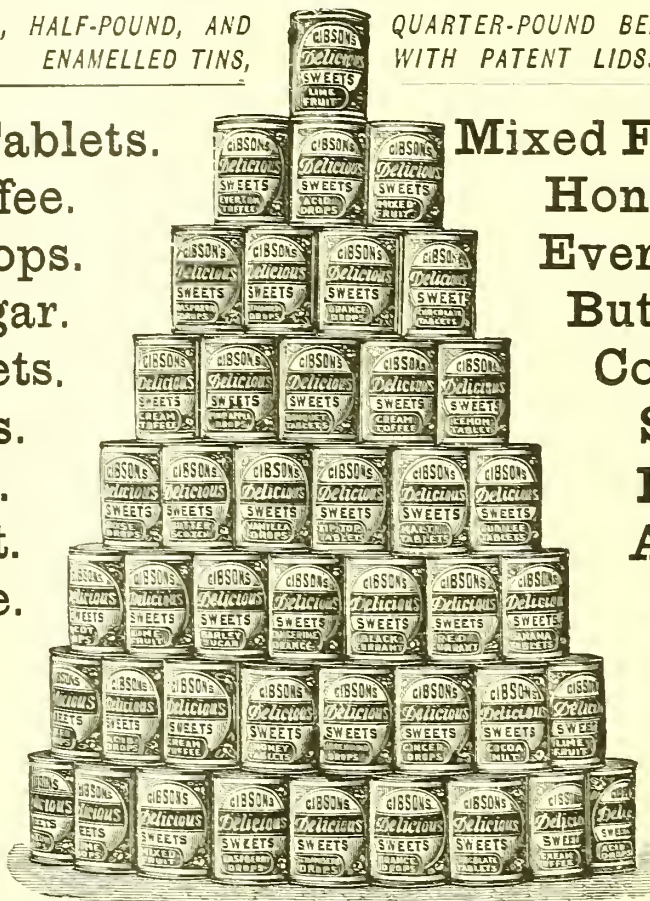
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B



C

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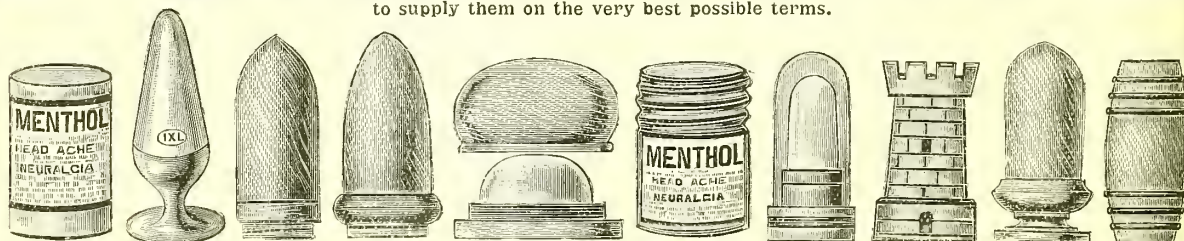
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4 ...	4	3/-	13 ...	—	4/-	22 ...	—	8/-
5 ...	6	2/9	14 ...	—	6/-	23 ...	11	8/-
6 ...	7	3/6	15 ...	6	6/-	24 ...	5	16/-
7 ...	8	4/-	16 ...	4	6/-	25 ...	10	16/-
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SOCIETIES in the British Empire.

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## OUR NEXT ISSUE

WILL be a particularly attractive and useful number, as we mean to circulate it to the whole of the drug-trade in Canada and to the best buyers in the United States and the West Indian Islands. This circulation will be in addition to our usual home, colonial, and foreign circulation, and it is an excellent opportunity for advertisers. The issue will contain full and special reports of the dinner and meetings of the Pharmaceutical Society, besides all the news of the week and special trade and other information. The publisher asks us to intimate that he cannot receive orders for displayed advertisements to be inserted in the issue after Wednesday morning next. Advertisements for the coloured supplement will be received as usual up to Thursday.

## PHOTOGRAPHIC COMPETITION.

WE remind all those who take photographs, and who are subscribers to the *C. & D.*, or employed by them, or members of their families, that we offer an excellent hand-camera as a first prize for a photograph of a pharmacy exterior or interior ( $\frac{1}{4}$  or  $\frac{1}{2}$  plate). Pictures of old pharmacies will be specially welcomed, as well as those of perfectly modern design, and photographs of sections (such as show-cases, cabinets, dispensing-counters, &c.) will rank equally with others. The camera will be given for the best picture. We hope to print a selection from those sent in in the *C. & D.* The competition is open during this month.



THE Chemists' Club had a successful dinner party last week (p. 750).

MR. H. S. WELLCOME designed the Bayard loving-cup. It is figured on p. 769.

ISLE OF MAN chemists have taken the first step to get a Pharmacy Law for the island (p. 750).

THE names of those who passed the Pharmaceutical first examination last month are printed on p. 770.

WE give a report of the defence in the case of the Apothecaries' Society *v.* Ellinor, though we gave the result last week (p. 760).

THE Midland Chemists' Association Committee have decided to support the P.A.T.A. list of Council candidates (p. 752).

SEVERAL letters on the Minor fee are printed in our correspondence section. Messrs. Eberlin, Park, and Sargeant are amongst the writers (p. 778).

MR. HIGGS, the Kingston chemist, who was fined for selling Dr. King's arsenical soap, which contained no arsenic, has obtained damages from the manufacturers (p. 763).

THE Chemists' Assistants' Association (of London) has concluded its session with over 100% in hand, but with fewer members. Mr. R. G. Guyer was awarded the research medal (p. 755).

IN an editorial note we advance some considerations and facts regarding cinchona production and quinine consumption which may affect the price of the alkaloid in the near future (p. 766).

WE report at considerable length the expert evidence given by analysts in the North London milk case. This was virtually a fight between public analysts and Somerset House chemists. The latter won (p. 758).

THE Deputy-Judge of the Woolwich County Court some time ago decided that a combination not to bid at an auction-sale for some spirit of nitre was illegal. On appeal this judgment has been reversed (p. 763).

PROFESSOR DEWAR has come out of the recount for the presidency of the Chemical Society with a majority of 14. Several interesting papers were read, notably, one on the examination of alloys by the *x* rays (p. 756).

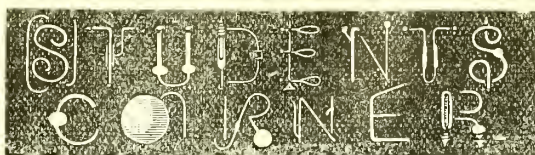
THE High Court has agreed with the Richmond Magistrates that the arsenical soap containing no arsenic was not a drug, and that the prosecution in such a case ought to have been taken under the Merchandise Marks Act (p. 757).

THE chemist whose lime-cream and glycerine was challenged at Brentford Police Court has been acquitted, the Somerset House chemist proving the presence of the glycerine in contradiction of the public analyst's certificate (p. 757).

THE forecast of the Pharmaceutical Council Election by our postcard vote is curious. Mr. Martindale is put at the top, and Mr. Hyslop at the bottom of the poll, with Messrs. Campkin and Warren tying for the fourteenth place (p. 767).

IT seems difficult to get rid of an elephant in a civilised country. Our news section contains particulars of one which swallowed as much aconitine as would have killed 2,000 men, and it needed two syringefuls of prussic acid after it. An artist supplies us with his views of the matter (p. 773).

THE Irish Pharmaceutical Council have interviewed the Irish Apothecaries' Society in regard to the allegation that the latter body give their diploma without requiring any evidence of pharmaceutical experience. The President also protests against Mr. Hayes's statement in this journal that the Council approved of his action in regard to the amendment of the Companies Act (p. 753).



CONDUCTED BY RICHARD J. MOSS, F.C.S., F.I.C.

#### QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will again form the subject of the exercise in qualitative analysis. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Wednesday, May 19, and the samples will be forwarded immediately.

Students' reports will be received up to Saturday, May 29. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

*(Our Report of the last Competition will appear next week.)*



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

#### Chemists' Club Dinner.

After a somewhat languishing existence of about fifteen months the promoters of the Chemists' Club resolved on a "House Dinner," but as the resources of the Club kitchen are not yet equal to the task of providing the stalled ox, the event came off at the Holborn Restaurant on Thursday of last week. The Commodore's Salon was engaged for the occasion, and upwards of sixty sat down to an excellent dinner, presided over by Mr. Horace Davenport, who was supported by the President of the Pharmaceutical Society (Mr. W. Hills) and Mr. R. A. Robinson, L.C.C. Among the other guests present were Messrs. Butler, Garman, Glyn-Jones, Goodall, Goldfinch, Groome, C. W. Martin, Martindale, Pirie, Dr. Paul, &c. The speeches after dinner were few but lively. Mr. R. A. Robinson, L.C.C., was lavish in his compliments to the Pharmaceutical Society. He considered that the Society had attained the objects which the founders had in their minds. They had improved the education of those who practised pharmacy, and they had formed a splendid benevolent fund, which was admirably administered. He was grieved and indignant with those chemists who did not associate with the Society. An undue burden was thus thrust upon the members. He was in favour of the proposed increase of the Minor fee, and though he knew there were differences of opinion about it, he could not for the life of him see where the injustice came in. Mr. Walter Hills, in responding for the toast proposed by Mr. Robinson, said he hoped he would one day be a member of the Council. The by-laws, he said, had now been read three times, and on each occasion they were read with absolute unanimity. One of the more recent members of the Council, who had had twelve months' experience of the inner

working of the Council, had expressed himself satisfied that they had done as much as they could to advance the interest of their common calling. They had found great sympathy and little opposition to the proposed change. There was no difficulty about the Society borrowing money, but by exercising a little economy they hoped to do without it. But the Council did not intend to lay up money for their descendants to spend; they would rather use it to the greatest advantage of the calling at the present time. A large sum of money had been spent by the Society on buildings in London and Edinburgh. These were absolutely necessary for properly conducting their examinations. In fact, the money had been spent for public purposes, and ought not to come entirely out of the pockets of the Society's members. The toast of "The Chemists' Club" was humorously proposed by Mr. Glyn-Jones, who said it ought to have been entrusted to some irresponsible bachelor. He was surprised that so much persuasion should have been necessary to induce chemists to become members, and was almost ashamed to mention the amount of the subscription, carrying with it as it did all the privileges of a town house. What sounded more genteel than to ask your friends to meet you at "my club." They could use it for correspondence—in fact, the half-crown subscription was more than balanced by the Club's stationery, which was a credit to any club. Mr. C. E. Garman, chairman of the Club committee, responded; and, in reply to the toast of his health, proposed by Mr. C. W. Martin, the Chairman said there was an erroneous impression about that the Club was run by a clique in trade interests. Some good music was sandwiched between the toasts.

#### A Spirit-of-Nitre Fire.

Last Saturday evening a curious explosion occurred at the shop of Mr. Hammond, chemist, Caroline Street, Hull. A bottle of sweet nitre, on a shelf in the back room, exploded from the heat of the gas. The stream of burning liquid set fire to a table, and an assistant named Miskin had a narrow escape. His clothes, coming in contact with the flames, were set on fire, but the principal, observing his danger, promptly rolled him on the floor, by which means the fire was extinguished. Mr. Hammond then pulled off his coat and smothered the burning spirit on the table and shelf, preventing any further spread.

#### Pharmacy in the Isle of Man.

Lord Henniker, Governor of the Isle of Man, has intimated his intention of introducing a Bill into the Legislature for assimilating the Manx with the English law in relation to pharmacy. The chemists in the island have been moving in the matter, and have interviewed the Attorney-General on the subject. They have, we believe, submitted a draft Bill to him.

#### A Chemist's Fatal Billiard Stroke.

At Paddington on Friday last, Dr. Danford Thomas held an inquest on Joseph Ford, aged 79, a retired chemist, of 123 Elgin Crescent, Bayswater. Mr. Skinner, proprietor of the Norfolk Hotel, Artesian Road, Bayswater, said that on the previous Tuesday the deceased came in and proposed a game of billiards. They had played for about twenty minutes when the deceased made an exceptionally good six-shot. Deceased turned round and said, "That was a good shot," and before witness could reply he reeled and fell to the ground. Witness hastily summoned a doctor, but before he arrived the deceased had died. Dr. MacLaren said death was due to syncope from sudden heart failure.

#### L.C.C. Chemicals.

At the weekly meeting of the London County Council, on Tuesday, the Main Drainage Committee submitted its estimate of requirements of chemicals for treatment of sewage for the year as follows:—Barking Outfall—Lime, 4 gr. per gallon (including storm-water), 14,782 tons, at 11s. 7d. per ton (including 600 tons for liquor treatment), 8,560l.; iron, 1 gr. per gallon, 3,285 tons, at 21s. 3d. per ton (including 300 tons for liquor treatment), 3,490l.; total, 12,050l. Crossness Outfall—Lime, 4 gr. per gallon (including storm-water), 9,000 tons, at 11s. 7d. per ton, 5,215l.; iron, 1 gr. per gallon, 2,250 tons, at 21s. 3d. per ton, 2,390l.; total, 7,605l. With regard to sewerage and drainage (deodorising

at storm overflows), it was not proposed to make any provision for deodorising for the year 1897-98, but there was a stock of chemicals at the outfalls and at Deptford as follows:—Manganate of soda (about 90 tons in stock at Barking, 132 tons at Crossness, and 22 tons at Deptford); sulphuric acid (about 10 tons in stock).

#### Mr. Hehner on Honey and Silent Spirit.

In reporting to the Isle of Wight C.C., Mr. Otto Hehner states that, amongst other samples, he has analysed during the past quarter eight of alum and eight of honey, all of which were genuine. Mr. Hehner states that there is a marked improvement in the purity of honey as compared with the condition of that article ten years ago. In reporting to the West Sussex C.C., the same analyst deals with the adulteration of brandy, and states that the flavour of several samples analysed rendered it practically certain that little or no real brandy—the spirit distilled off wine—entered into their composition. Unfortunately, however, there are no chemical means to prove such substitutions, and the flavour-test is too disputable to rely upon.

#### L.C.C. Chemists' Department.

At the London County Council, on Tuesday, the Establishment Committee submitted its estimate for the Chemical Department for the year as 3,255*l.*, being an increase of 150*l.* over that of the past year, and made up as follows:—The Chemist, 800*l.*; 2 senior assistants at 350*l.*, 700*l.*; 2 assistants, first class (at 300*l.* and 245*l.*), 545*l.*; 4 assistants, second class (ranging from 175*l.* to 200*l.*), 750*l.*; 1 assistant, third class, 150*l.*; 1 assistant, fourth class, 100*l.*; 1 temporary assistant at 1*l.* 15*s.*, 9*d.*; 1 messenger at 1*l.* 6*s.*, 67*d.* 12*s.*; 1 laboratory attendant at 18*s.*, 46*d.* 16*s.*

#### War Materials.

Messrs. Allen & Hanburys are amongst those who have supplied medicines, chiefly gelatine capsules and compressed tablets, for despatch to Thessaly. We also learn that Messrs. W. B. Fordham & Sons (Limited) have supplied their unbreakable pulp-ware for washing-purposes, there being considered specially suitable for field-use. From Bradford we hear that Messrs. Forshaw & Snow last week wrote to the King of Greece, volunteering to send for his wounded soldiers sufficient chloroform for 2,000 operations, and they received the following telegram in reply:—"Forshaw & Snow, 738 Westgate, Bradford.—His Majesty the King is profoundly grateful; accepts envoy of chloroform. Chamberlain Messala." Makers of all kinds of surgical goods have been particularly busy lately, large consignments of bandages, splints, &c., having been sent out to the Cape to the order of the Transvaal Government and others interested in the South African problem.

#### Boots' Spring-cleaning Prize.

Boots (Limited) have awarded their 2*l.* prize for the best spring-cleaning poem they received in competition to Mrs. Annie Jackson, Northampton. We quote the first and third verses of the poem:—

'Twas time for the dreaded spring cleaning,  
And, oh! how my heart did grieve,  
For my husband was looking sulky,  
And the servant gave notice to leave;  
The baby had got the measles,  
But for that we might not delay,  
For had not our rich old maiden aunt,  
Said she was coming to stay?

How could I have been so stupid  
As forget what "Boots" could do,  
To their stores then I quickly hurried,  
Spending a shilling or two;  
Then home again just as quickly,  
With "Gold Paint," and bright "Varnish Stain,"  
"Wills' Cleansing Cloudy Ammonia,"  
Which never yet let dirt remain.

#### Cookery Exhibition.

The tenth Universal Cookery and Food Exhibition was opened on Wednesday at Niagara Hall, St. James's Park, by the Baroness Burdett-Coutts. A prominent feature is a kitchen of 1837, compared with the more perfectly appointed

kitchen of the present day. There are a large number of exhibits.

#### Chemists at Cricket.

A match was played on Saturday last at Brockley, between teams representing Barron, Harveys & Co. and Burroughs, Wellcome & Co. Barron, Harveys & Co. scored 100 for 4 wickets, Burroughs, Wellcome & Co. 39. A. Halson made 40, not out, for the winners and took 6 wickets.

On Saturday, Burgoyne Barbidges' C.C. played the Zebra C.C. (the staff of the Poplar Union) on the latter's ground at Walthamstow. Burgoyne's scored 107 for five wickets, and the Zebra made 75. Newport batted well for the victors, making 49, whilst Dr. O'Brien hit freely for the losers (39). A curious incident of the game was that the ball landed in the umpire's pocket from a straight drive off Newport.

Several secretaries of drug cricket clubs have sent us their lists of fixtures, for which we are obliged. In preparing the championship table during the season, it will be understood that we shall only count those matches contested between drug-house clubs. The record, so far as we know it, stands at present:—Burgoyne's, 1; Barron's, 1; Heron, — 1; and B., W. & Co., — 1.

#### The Benevolent Fund.

The following additions have been made to the Manchester District "Diamond Jubilee" contribution:—

	£	s.	d.
Amount previously announced	107	12	0
A friend	0	10	0
Banks, Ed.	0	10	0
Bew, John	1	1	0
Boor, Fredk.	0	5	0
Bowden, H.	0	5	0
Bransby, C. K.	0	2	6
Burgess, J. S.	0	10	0
Cussons & Sons	0	10	6
Graham, Chas. H.	0	10	6
Johnstone, Ed. S.	0	10	0
Siebold, L.	1	1	0
Smith, J.	0	5	0
Tyson, John	0	10	6
Williams, J. B.	0	5	0
Total to date	£114	8	0

#### The Teaching of Chemistry in London.

The Technical Education Board of the London County Council have, in their recently-issued annual report, given an account of the conclusions and recommendations of the sub-committee appointed to consider the question of the teaching of chemistry in the metropolis. This sub-committee included Dr. W. J. Russell, Professor Ramsay, and Mr. Ludwig Mond, F.R.S. The special reference to them was with a view of considering how the instruction in secondary schools in this subject might be made more useful and better adapted to the needs of London industries. The chief recommendations were that in secondary and continuation schools the teaching of chemistry should be solely of an educational nature, and should have no reference to practical applications, and that chemistry should be taught concurrently with mathematics and languages, and should be preceded by a course in physics. The teaching should be largely practical. With regard to evening classes, they concluded that for a certain class of adults, both employers and employed, there is need of instruction in special branches of chemistry, an understanding of which is of direct use to them in their occupation, and that the teaching of chemistry in its application to any localised industry should be concentrated, as far as possible, in a small number of institutions, which should be thoroughly equipped for the purpose and placed under the direction of technical experts, as in the case of the tanning school and the leather-dyeing school at Bermondsey.

#### Drinking Methylated Spirit.

A blacksmith named Lee died in the Bethnal Green Workhouse Infirmary last week. He had been in the habit of procuring methylated spirit at an oil-shop, and drinking it. The Coroner: Drinking methylated spirit? Isn't it horrid stuff? A Juryman: My employer once gave me some

when I was taken ill, and it did me good. The *post-mortem* proved death to be due to gastritis, caused by drinking the spirit, Dr. Knox remarking that the man seemed to have consumed about a pint a day.

#### The Homœopathic Philanthropist.

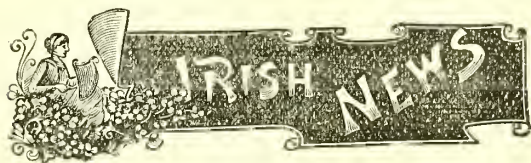
Mr. Benjamin Parsous, of Stroud, states that for some years he has treated the poor of the town with homœopathic medicines, incurring thereby a good deal of expense. He proposes to give a pianoforte recital, and apparently hopes the public will reward his homœopathic philanthropy by paying to hear his piano-playing.

#### Made a Fool of Himself.

Samuel Johnson, chemist's assistant, was summoned at the Ryde Police Court, on Monday, for having been drunk and refusing to quit the Ryde Pier Refreshment-rooms on April 24. He said he was sorry to say he was guilty. Mr. Colenutt, who defended, said there were extenuating circumstances in the case. The defendant had been a teetotaler for some years, but, unfortunately, he had broken his pledge and made a fool of himself. The first thing he did when he got sober was to express regret to the manageress of the refreshment rooms. He believed the defendant was in poor circumstances, and had lost the situation which he held through getting drunk. Defendant was fined 5s. and 8s. 6d. costs.

#### Birmingham and the P.A.T.A.

The Midland Pharmaceutical Association Trade Committee has prepared its annual report, in which it is stated:—The Committee have held five meetings during the year, under the chairmanship of Mr. William Jones, Mr. F. H. Prosser continuing the secretaryship. They have had under consideration and discussion the best way of strengthening the hands of the P.A.T.A., which Association they are convinced will be the means of not only securing to the retailer an adequate remuneration, but will also form the basis of a strong and united protection association. The committee have had correspondence with all the leading wholesale houses who have not yet joined the P.A.T.A., and in most cases have been able to influence them to reconsider their position. The committee have also had correspondence with all the leading makers of proprietary articles who still hold aloof from the P.A.T.A., and they find that most of them, while admitting that the principle of a guaranteed profit is a just one, are awaiting developments before they join. Negotiations have been opened up with the London carriers *re* carriage of small parcels at a reduced monthly rate to members of the Association, and the committee hope to be able to bring these negotiations to a satisfactory issue. The election of their chairman, Mr. William Jones, as president of the P.A.T.A., is noted with satisfaction, and the committee urges its members to join the P.A.T.A. and use every legitimate effort to influence wholesale houses and manufacturers in its favour, and to vote solid at the Pharmaceutical election for candidates in favour of it.



Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

#### The Lowest Tender.

At last week's meeting of the Mullingar Guardians a lively discussion took place over the medicine-contract. Mr. King, a Guardian, asked if the Local Government Board had sanctioned the contract entered into between the Guardians and Mrs. English for the supply of medicines to the Union. On being answered in the negative, Mr. King said as a representative of the ratepayers he protested against the robbery of the rates in not accepting the lowest tender. The action of the Guardians meant a certain loss to the ratepayers. Mr. Seally, in reply, said the committee had

examined the tenders, and had taken out fifty articles and compared the prices. They found contractors charging 1s. or less for articles which would cost 10s. or 1l. Were they to accept such tenders? After an acrimonious discussion Mr. King handed in a written protest, which was entered on the minutes.

#### A Dublin Chemist Dies from an Overdose of Morphia.

At Dublin, on Friday last, Mr. Robert E. McDowell, chemist and apothecary, whose pharmacy in Grafton Street was put up for sale by auction a few days ago, died in the City of Dublin Hospital from the effects of an overdose of morphia, which he took in his branch medical hall, 46 Lower Baggot Street, where he resided. He had been in the habit of taking large doses of morphia, and last December was treated at the Adelaide Hospital, where he lay in an unconscious state for nine days suffering from narcotic poisoning. In consequence of his habit of taking morphia, he was the source of constant anxiety to his wife and children. On Wednesday afternoon Mrs. McDowell was speaking to him in his bedroom. He was then partially dressed, and was brushing his hair. Mrs. McDowell left the room, and returned about fifteen minutes later. The poor lady, who is blind, not hearing her husband moving about, began to search for him, and at length found him lying across the bed on his back. Finding that she could not rouse him, she called Mr. Doherty, the assistant, from the shop. Medical aid was summoned, and he was afterwards taken to the hospital, where he died without regaining consciousness. At the inquest on Saturday, after hearing medical and other evidence, the jury returned a verdict of death from paralysis of the breathing muscles, caused by an overdose of morphia.

## French News.

(From our Paris Correspondent.)

THE PARIS DISASTER.—Living as we have done in Paris during the past week in an atmosphere impregnated with sorrow, it is difficult to refrain from an allusion to the awful catastrophe at the Bazar de la Charité. The cinematograph lamp which caused this disastrous fire has naturally been the subject of much discussion. M. Girard, the head chemist of the Paris Municipal Laboratory, is endeavouring to trace the exact cause of the accident, and he has interrogated the two men who had charge of the cinematograph apparatus, who were amongst the persons who escaped. The head man, M. Bellac, first said he had no idea how the fire broke out, but subsequently stated that his lamp had become low and he manipulated the taps with a view to increasing the volume of oxygen, when suddenly he found himself enveloped in flames. M. Girard is not quite satisfied with this explanation, but he admits two hypotheses. First, supposing what M. Bellac says is correct, he may have accidentally opened the taps too much and thus caused a large flame to spring up which may have ignited the celluloid bands which the two operators held. The celluloid would burn like a fuse and easily set fire to the surrounding drapery. The second conjecture is that the lamp may have completely gone out, and M. Bellac in relighting it possibly caused an explosion of the ether with which the lamp was filled. The flame caused by the relighting would communicate itself to the celluloid, as in the first hypothesis. Dr. Davenport, an American dentist here, was able to render special service in the recognition of the Duchess of Alençon's corpse. Neither the Duke nor any other member of the family could recognise it but as dentist to the deceased lady Dr. Davenport was able to identify her, and this he was required to do on oath. The resisting qualities of teeth in the circumstances under which the Duchess met her death are well known, and the dentist was able to produce plans showing the operations performed by him for several years past. Dr. Davenport has shown me some of these plans, which give the form of the teeth in outline and the dentist indicates in the margin the work done by him. These slips are supplied by the dealers in dental supplies. It is not the custom for dentists to keep them, but if Dr. Davenport had not done so in this case the body of the Duchess d'Alençon would probably never have been recognised.

## Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held on May 5. Present: Mr. W. F. Wells, jun. (President), Mr. Downes (Vice-President), Messrs. Grindley, Beggs, Kelly, Conyngham, Ryan, Dr. Walsh, and Professor Tichborne.

### PHARMACISTS AND APOTHECARIES.

The PRESIDENT reported that a deputation, consisting of the Vice-President, Mr. Bernard, and himself, waited on the governor and directors of the Apothecaries' Hall in reference to allegations which had been made that the Apothecaries' Hall were granting their diplomas to medical men who had not served an apprenticeship. The deputation represented that it was very hard that licentiates of the Society should have to spend four years at practical pharmacy before they could be qualified to keep open shop, whilst medical men should receive the qualification of the Hall without having spent a day in a pharmacy. The directors of the Hall promised to give the matter their serious consideration, intimating that they were drafting new regulations in connection with their extended powers of giving the triple qualification.

### MEDICAL COMPOUNDERS TO CORK UNION.

The President next drew attention to the fact that the Local Government Board had, with some reluctance, provisionally sanctioned as an experiment the appointment for six months of Dr. Murphy and Dr. O'Brien, resident medical officers of the Workhouse, to discharge the duties of apothecary. The Local Government Board stated that at the conclusion of that period they would obtain a report from their inspector as to the hours of attendance of the medical officers in the compounding department and the arrangements for dividing the duties between them. They would then be in a position to decide as to the propriety of making the arrangement a permanent one. The salaries of the medical officers are to be increased 30% a year each. The office in question, said the President, had been previously held by a licentiate of the Society, who gave great satisfaction. He (the President) did not know whether the gentlemen mentioned in the letter were apothecaries or not. Even if they were, the sanctioning of their appointment in the capacity in question was a new departure on the part of the Local Government Board.

Mr. KELLY: I received a letter from a licentiate who was a candidate, complaining of it.

The VICE-PRESIDENT: It is a reversal of a former decision of theirs.

Dr. WALSH: In several of the smaller Unions throughout the country where there is no apothecary the doctors do the dispensing.

### MR. EVANS WANTS TO RESIGN.

A letter from Mr. Charles Evans, 49 Dawson Street, conveyed his resignation of his seat on the Council, as he was about to sever his official connection with the Society. Mr. Evans expressed his gratitude for the confidence the Council had placed in him by electing him President, and for the support and assistance they had invariably given him during his term of office.

The PRESIDENT: I have urged Mr. Evans to hold on to the Society, but he said he was determined to leave.

Mr. GRINDLEY: He has been an ornament to the Society and the Council.

The PRESIDENT: He devoted whole days of his time with me at the time of the consideration of our last Bill.

Mr. BEGGS: We should ask him to reconsider his resignation.

The Registrar was directed to write to Mr. Evans to that effect.

### ON THE ABATEMENT OF PENALTIES.

Mr. J. B. Dougherty (Under Secretary), Dublin Castle, transmitted, for observations from the Council, a copy of a memorial which the Enniscorthy Co-operative Agricultural Society (Limited) had sent to the Lord Lieutenant, asking for the remission or abatement of a penalty of 5% which had been imposed on John Kinsella, an assistant of theirs, for selling Hayward's sheep-dip without being lawfully qualified

to do so. The memorial stated that the sheep-dip had been supplied to members of the Society only and in total ignorance that they were transgressing the Pharmacy Act; and that the dip had been supplied by a boy in their employment to the sergeant appointed under the Food and Drugs Act under the impression that he could not refuse to supply him. On December 14, 1896, they received a letter from the Society, and subsequently they ceased supplying the compound to anybody. On April 25, long after the breach of law complained of, they were prosecuted.

The PRESIDENT said the Council had twice before strongly remonstrated against memorials of this sort being complied with, and on both occasions had gained their point. He was in possession of all the facts of this case, and would, with the assistance of the Vice-President—if the Council permitted—prepare a reply to the memorial. The memorial was not signed by the chairman of the company, and he (the President) presumed that that was because the chairman was one of the magistrates on the bench to whom the Society's solicitor objected at the hearing of the summons. The sergeant of police had evidence that the dip was supplied broadcast; and in court the solicitor for the defendant stated that had he known what the sergeant wanted with the compound he would not have given it to him.

The VICE-PRESIDENT: Can they sell it to their own members?

Mr. CONYNCHAM: I think so.

The PRESIDENT: When we wrote to them asking for information they would not give it to us at first; and afterwards, when we sent them a notice respecting the penalty, they sent us a very peculiar letter.

The duty of drafting a reply to the memorial was committed to the President and the Vice-President.

### THE CONSTABULARY AND THE PHARMACY ACT.

A letter from the Inspector-General of the Royal Irish Constabulary intimated that the attention of the constabulary would be directed to the cases specified in a memorandum accompanying a letter which had been addressed to him by the Council.

The PRESIDENT: Our deputation laid certain facts before him, and he told us that if we sent him information as to the cases we thought should be taken up by the police, it would be done.

Another letter from the Inspector-General acknowledged the receipt of one from the Council, in which Sergeant Doherty was commended for his action in the case against the assistant of the Enniscorthy Co-operative Agricultural Society.

The PRESIDENT: The sergeant took a great deal of trouble in the case, and carried it out creditably.

### DELEGATES TO BRUSSELS.

The President and Professor Tichborne were nominated as delegates from the Society to attend the Eighth International Pharmaceutical Congress at Brussels.

### LIMITED COMPANIES AND THE PHARMACY ACT.

Mr. FERRALL read the following letter, which had been received from Mr. J. C. McWalter:—

Dublin, April 27.

Dear Sir,—Would you be good enough to inform me: (1) Whether your Council accepts the certificates of persons who have served the required four years in the service of limited liability companies, where the debenture shareholders of such companies are unqualified persons? (2) Whether an unqualified person in the service of such a company may compound, dispense, or sell a medical prescription? (3) Whether the name and address of every person who, being in the service of a limited liability company, dispenses, compounds, or sells a poison or prescription, must not appear on each such article? As far as I can understand the Pharmacy Acts, the answer to the first two questions must be in the negative, but I am anxious for an authoritative statement.

The PRESIDENT said the answer to the first inquiry in the letter was that, so far as he knew, the Council had never knowingly received a certificate from a limited company; and from what he knew of several members of the Council he was sure that unless they were compelled to do so they never would. It was, of course, open to any limited company to bring them into the Queen's Bench, and should such a thing occur it would be the duty of the Council to meet them there and have the matter tested, and he believed that

the Council would get a decision in their favour. As to whether unqualified persons in the service of a limited company could compound, the answer was that they could not. The Judges of the Queen's Bench had laid down that any person in the service of a limited company who compounded must be a qualified person, and that if he was not he would be liable to a penalty. As to whether a limited company who employed an unqualified man, and allowed him to do acts which could only legally be done by a qualified person, were liable themselves, that was a question which had not yet been raised, and consequently was undecided. As to whether the name and address of the actual seller should be on the article sold, that was a point to which he referred in his address at last year's annual meeting. There was no legal decision on the point, but he thought it a very nice one. He was inclined to think that the name of the actual seller should be on the label. According to the Queen's Bench the seller in a limited company was not the company itself, but the individual who made the sale. That individual must be a qualified person. According to the Poisons Act the seller was bound to put his name and address on the article sold. He thought Mr. McWalter might be told what he had just said.

The VICE-PRESIDENT said he thought it would be better for the Council not to take upon themselves to give opinions, which might be upset or reversed. It would be better for them, in the first instance, to have recourse to legal advisers. He therefore moved—

That the questions put by Mr. McWalter be referred back to the Law Committee, with a direction to submit same to the Society's solicitor for his opinion, and authorising him, if necessary, to take the opinion of counsel on the matter.

Professor TICHBORNE seconded the motion, which was carried.

#### MR HAYES AND COMPANY PHARMACY.

The PRESIDENT said he felt it his duty to draw attention to a paragraph in a letter, written by Mr. Hayes, which appeared in *THE CHEMIST AND DRUGGIST* the week before last. He regretted that Mr. Hayes was not present. He did not want to enter upon any discussion in reference to Mr. Hayes's company; but he felt that he would be neglecting his duty if he did not refer to this paragraph. In September or October, 1895, Mr. Downes drew the attention of Mr. Hayes, who was then President of the Society, to the fact that a committee was to sit in London for the purpose of receiving evidence in reference to the amendment to the Companies Act, and suggested that it would be wise for the President to go to London and try to get a clause inserted in the amendment Bill which would prevent company pharmacy in Ireland. They consulted together and drafted a clause. Mr. Hayes took it to London, and proposed it to the committee; but he did not stop there. He proposed another, which, if it had been accepted, would have rendered the one that had been agreed upon null and void. The clause agreed upon made it illegal for a limited company to carry on the profession of a pharmacist. The added clause enabled a company to do so, provided it had a qualified "director." Now, in some limited companies one man was manager and director; and, if Mr. Hayes's clause had been adopted by Parliament, a qualified man could now be put in as manager and director of a company, although he might not own a single share in it. When Mr. Hayes came back his action was not approved of by the Council, and some members wanted to pass a vote of censure on him, being of opinion that he had deliberately given the Society away. The question then was how to get out of the difficulty they had been placed in, as the clauses had been printed, and might go before Parliament as the recommendations of the Society; and it was decided to alter the word "director" in the added clause to "company," and ask to have it passed in that way. If they had asked to have the whole thing withdrawn, perhaps it would not have been done. But what he (the President) found fault with now was this—Mr. Hayes, in his letter in *THE CHEMIST AND DRUGGIST* of April 24, said: "And this recommendation was sanctioned and adopted by our Council with the substitution of the word 'company' for 'director,' as per resolution of Council on December 4, 1895, reported in your journal December 14, page 854." The

Council never approved of Mr. Hayes's clause. On the contrary, they disapproved of it, and were quite dissatisfied with him; and several members of the Council—himself (Mr. Wells) amongst the number—thought that Mr. Hayes had, by his action, completely sold the Society.

The VICE-PRESIDENT said that at the time Mr. Hayes went to London he thought he was of the same mind as the majority of the Council, and he never was more surprised than when he saw his clause in *THE CHEMIST AND DRUGGIST*. He (the Vice-President) came to the next meeting of the Council with a resolution of censure in his pocket; but other members of the Council spoke to him and said that as Mr. Hayes was going out of office as President at the time such a resolution would be too great a slap in the face to him. When his clause was discussed in the Council they endeavoured by the alteration that was made to take the heart out of it. They could see now that Mr. Hayes had formed his new company on the lines that he endeavoured to have carried out then.

The subject then dropped.

#### IN THE NAME OF THE QUEEN.

The REGISTRAR was then proceeding to read a letter drafted by Mr. Conyngham, to whom, pursuant to a resolution passed at the last meeting, it had been referred to prepare a circular letter to be issued to licentiates in pharmacy and chemists and druggists, inviting their attention to the benefits they would derive from being members of the Society, when

Mr. GRINDLEY rose to order.

Mr. CONYNGHAM protested against the reading of his draft letter being interrupted.

Mr. GRINDLEY: My point of order is that the letter is irregular in containing a reference to the Queen's Jubilee, the celebration of which was referred to a committee of the whole Council, from whom there is a report. That has nothing to do with the duty Mr. Conyngham was delegated to perform.

The PRESIDENT said the subject of the Queen's Jubilee had nothing to do with that of a letter to the licentiates; but he nevertheless thought it would be better to allow the letter to be read.

Mr. FERRALL read the draft letter, which was as follows:—

Dear Sir,—The Council of the Pharmaceutical Society of Ireland, having under their consideration the best means of celebrating this the twenty-first year of their existence as a Society, and also the Diamond Jubilee of her Majesty Queen Victoria, invite your co-operation towards a scheme which I have pleasure in submitting to you. It has been suggested that the most appropriate and lasting way in which to mark the auspicious occasion would be to establish a Benevolent Fund for the chemists, chemists and druggists, and registered druggists, their widows and children, when left otherwise unprovided for, and on which we would be pleased to have your views. The Council take this opportunity of thanking the pharmaceutical chemists, chemists and druggists, and registered druggists for the generous support accorded to them in carrying out the onerous duties entrusted to them, and would respectfully impress upon all the necessity for extending that support by becoming contributors themselves, or, if old members, by influencing others to join the Society. It would have been impossible without the loyal co-operation of the members of the Society to have achieved all that it has in the past; and it is a reproach to us, as the body entrusted with the regulation of pharmacy in Ireland, that so few are contributors to the Society. We would ask you to use your influence in this direction, and assure you that any suggestion you may be pleased to make respecting these objects shall have due consideration.

The PRESIDENT said that any reference to the mode of celebrating the Queen's Jubilee was quite out of place in what was intended to be a circular to licentiates drawing their attention to the advantages they would receive from membership of the Society. He was sure the licentiates of the Society would all agree that an address should be presented to the Queen; but that was a matter for the Council to decide.

Mr. BEGGS remarked that the draft letter contained contradictions, for in one place it spoke of the generous support which the Council had received "from the licentiates," and in another it referred to the paucity of subscribers to the Society.

The VICE-PRESIDENT, Mr. KELLY, and Mr. RYAN said the letter should be referred to the Law Committee; Mr. CONYNGHAM said that was all he asked; and it was so agreed. Mr. GRINDLEY remarked that he had been the first to make the suggestion, in committee, of a benevolent fund.

#### THE QUEEN AND A DINNER.

The REGISTRAR then read a report from a committee of the whole Council, submitting the draft of an address to her Majesty on the occasion of her Jubilee. This was read and approved. The committee also recommended that a dinner should be held.

Mr. CONYNGHAM urged that a benevolent fund should be started.

The PRESIDENT said the proposal of an annuity fund was discussed the other day in committee, and they thought it would be a very good thing to start if they could succeed with it.

It was finally resolved to hold an annual dinner; and the consideration of other arrangements in connection with it was deferred.

On the motion of the PRESIDENT, Mr. Wm. A. Maxwell, 23 Castle Street, Dalkey, was nominated for membership.

### Chemists' Assistants' Association.

THE annual general meeting was held at 9 Queen Square, W.C., on May 6, the President (Mr. C. Morley) in the chair. Mr. E. J. Millard was elected a patron of the Association. The Secretary (Mr. C. E. Robinson) read the twentieth annual report, which stated that thirty-six new members had been enrolled during the present session, making a total of 133, and the number of patrons is now forty-nine, being within one of the limit imposed by the rules of the Association. Nineteen notes and papers were contributed during the session, and in addition a discussion was held on "The Proposed New By-laws of the Pharmaceutical Society." The annual smoking-concert, *conversazione*, and series of Cinderella dances were again a great success, as was the annual dinner at the King's Hall, Holborn Restaurant, when in the matter of attendance a record was established, 270 guests having been present. The research prize, consisting of the Association's medal and a supplementary prize of money and books given by Messrs. Burroughs, Wellcome & Co. had been awarded to Mr. R. Glode Guyer for work done on "The Iodine Value of Beeswax." There had been no competitors for the essay prize. The sum of 15s. obtained for the sale of programmes at musical and social evenings had been given to the Benevolent Fund. The premises at 103 Great Russell Street, where the Association had long had its rooms, were to be shortly pulled down, and since Lady Day the Association has been temporarily installed at 9 Queen Square, W.C. The balance-sheet showed an increased balance to the good.

Mr. C. J. Strother, Hon. Treasurer, submitted the balance-sheet. He congratulated the Association on having a balance of 101*l.* 12*s.* 10*d.*, the largest it had ever had.

Both reports were adopted.

The President then presented the Association's medal, which goes with the prize offered by Messrs. Burroughs, Wellcome & Co. for practical work, to Mr. R. Glode Guyer for his paper on "The Iodine Value of Beeswax."

Mr. Guyer briefly acknowledged the award, and also expressed his regret that in consequence of his leaving London he could no longer be actively connected with the work of the Association.

The result of the Council election was then declared by the scrutineers. Seventeen members had offered themselves for re-election; 53 voting-papers had been sent in, one of which was informal. The following 14 were elected:—

Votes		Votes	
Mr. C. Morley ...	51	Mr. G. E. Pearson ...	43
Mr. A. R. Melhuish ...	50	Mr. T. Tickle ...	40
Mr. C. E. Robinson ...	49	Mr. F. R. Stephens ...	40
Mr. T. M. Taylor ...	49	Mr. G. Roe ...	39
Mr. E. W. Hill ...	47	Mr. F. Cooper ...	31
Mr. H. H. Robins ...	46	Mr. C. E. Pickering ...	27
Mr. C. J. Strother ...	46	Mr. F. W. Gamble ...	26

The unsuccessful candidates were:—Mr. E. A. Umney, 26; F. James, 23; W. A. Jones, 21. A tie having occurred for the last place, the President gave his casting vote in favour of Mr. Gamble.

A long discussion ensued on a motion by Mr. George Roe to substitute in Rule 6 the words "annual ball" for "*conversazione*."

Mr. Strother proposed to make it "*conversazione* and ball," but the members could not make up their minds, so eventually the discussion was adjourned till next session.

The President then read his valedictory address, in which he reminded members that at the commencement of the session he had urged more London assistants to throw in their lot with them. He was disappointed that his appeal had not met with a better response; for, not only had the membership roll not increased, but it had to some slight extent shrunk. He hoped members would utilise the coming vacation to enlist new associates.

Mr. A. R. Melhuish proposed a hearty vote of thanks to Mr. Morley for the very efficient manner in which he had discharged all the duties connected with his office, and expressed the opinion that he had been one of the best Presidents the Association had ever had. Seconded by Mr. Guyer and carried with much applause.

### Chemistry from Manchester.

THE Manchester Section of the Society of Chemical Industry had so much to do at their meeting last Friday that business began at 6.30 P.M. There was a large attendance, and some preliminary lingual skirmishing before the meeting settled down to scientific business. Then, after a note on an indigo-testing apparatus, by Dr. Grossman, a paper on

#### THE ACETYL VALUE OF OILS

was read by Dr. Lewkowitch, who recalled the fact that he had been engaged on this subject with Benedikt, when the death of his colleague ended the conjoint work. Dr. Lewkowitch has since continued the research, and has made some changes in the original method, which he proceeded to describe, after pointing out that certain saturated fatty acids, which cannot be hydroxylated, give apparent acetyl values which are fictitious. The chief drawback to the present method is the practice of first separating the fatty acids, because this often involves the extinction of certain distinctive features of the natural fats. He cited the case of butter and tallow, the saponification values of which differ, though the saponification values of the separated fatty acids show very little difference. His methods are quicker than the older procedure of Benedikt, and give results which are more easily arrived at, and concordant, as the following figures (which are the values obtained by the relative processes) show:—Castor oil, 150.5 and 149.6; croton, 40.68 and 41.09; maize, (a) 8.75 and 8.25, (b) 7.81 and 7.90.

Mr. Dancer followed with a paper on

#### THE SEPARATION OF As, Sb, AND Sn.

His process is based on the solubility of the sulphides of antimony and arsenic in lime-water, and the insolubility of tin therein. The quantitative method, which is here given in outline—all the usual precautions as to washing, &c., being omitted—is equally useful as a qualitative method of separation. The metals (about 0.1 gramme of each) are fused with potassium carbonate and sulphur, the melt dissolved in water, and neutralised with hydrochloric acid. About 300 c.c. of clear lime-water is added, and the whole heated to 80° C. for four or five minutes. The tin is washed by decantation, and the filtrate (As and Sb) boiled down, while the precipitate is being dealt with by dissolving the small amount on the filter in a few drops of yellow ammonium sulphide, adding to the bulk in beaker, diluting to 400 c.c., and boiling with 1 gramme of pure calcium oxide. When all the ammonia is driven off, the tin is completely precipitated. After filtering, drying, and igniting, nitric acid (dilute) is added, the nitrate of lime filtered off, and the tin oxide washed, &c., and weighed. The filtrate, boiled down to 30 c.c., is treated with .880 AmHO and glacial acetic acid

added drop by drop until a permanent precipitate of antimony sulphide is formed. The solution is then boiled, the  $Sb_2S_3$  filtered off, and titrated with iodine by Dr. Clark's method. The arsenic, which is still in solution, is thrown down with strong hydrochloric acid, dissolved in  $AmHO$ , and titrated with iodine and starch indicator.

## Chemical Society.

WHAT has come over this august body? One would think that the Fellows gathered for a funeral, judging from the tone of the last two meetings. It is true that

### DEAD HOPES WERE BURIED

on Thursday evening of last week, for when the President (Professor Dewar) had nominated Dr. Jowett and Dr. Lapworth as scrutineers of the election-ballot, he informed the meeting that the two scrutators [Professor Norman Collie and Dr. Wynne] who had acted at the annual meeting had again met and counted the voting-papers for the officers and Council. The senior Secretary had communicated the result to the Council and to him (the President), and he thought it would be no breach of confidence to inform the Fellows of it. The figures were:—

For the Council list	...	...	166
Against	...	...	152

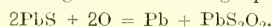
The President at once called upon Mr. A. E. Munby, M.A., to communicate a note on

### A BUNSEN-BURNER FOR ACETYLENE.

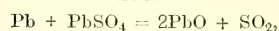
The Fellows would not allow the presidential recount to pass without a cheer. Mr. Mundy then showed his Bunsen-burner, which is constructed exactly like an ordinary one, but the tube is only 5 mm. in diameter. He had tried burning acetylene with carbon dioxide, but that would not do, so fell back on air, and has found it to work splendidly. The burner uses 1 cubic foot of acetylene per hour at a pressure of 6 or 7 in. of water; the flame is intensely hot, and the cost is only  $\frac{1}{2}$ ¢ per hour per student. The burner should be especially valuable to chemists who are situated where they cannot get coal-gas. Mr. Munby said it is quite safe, and he demonstrated after the meeting that the supply of air can be diminished, or the flame burned back, without fear of explosion. The flame is so hot that no blowpipe is required for certain experiments, such as the combustion of zinc. The latter experiment was done at the meeting, and its prettiness was applauded. The next paper was on

### THE REACTIONS BETWEEN LEAD AND THE OXIDES OF SULPHUR.

Messrs. H. C. Jenkins and E. A. Smith, of the Royal Mint were the authors, and the former made the communication in a dreamy-dreary sort of way. Hannay long ago stated that when galena is heated with a current of air the lead sulphide is partly reduced to the metallic state, and the rest of it oxidised according to the following equation:—



Some of the oxide is volatilised, but Hannay did not isolate it, and inferred the equation from the amount of metallic lead found and the oxygen used. The authors have found that galena itself volatilises, and, repeating Hannay's experiment, they ascertained that the quantity of metallic lead varies with the temperature and oxygen, from 17 per cent. to 36 per cent. being the yield, but they got more under certain conditions. They could get no evidence whatever of the existence of  $PbS_2O_2$ , but they could never get rid of the sulphur altogether, the residues being black and giving off sulphuretted hydrogen when treated with acids. They then tried what would happen when lead and lead sulphate are heated. The text-book result is—



but they always found the residue to be black, on account of contained sulphide. Results at various temperatures were submitted, showing that the amount of sulphide produced increases with the temperature. The action of sulphurous anhydride upon molten sulphur also results in the production of sulphide of lead, as well as oxysulphur salts of the metal,

and a point is reached where the reaction becomes reversible. Professors Roberts Austen and Armstrong, Mr. Groves, and the President commented upon the communication, chiefly in compliments.

Mr. C. T. Haycock, F.R.S., on behalf of himself and Mr. Neville, communicated a note on

### X-RAY PHOTOGRAPHS OF SOLID ALLOYS,

which proved to be of intense interest on its own account, as well as for the important observations which fell from the Chair. Mr. Haycock said that the question which he and Mr. Neville wished to answer was, What happens when alloys solidify? He reminded the meeting of the phenomena which are observed in solutions of solids in liquids. Thus (1) when a dilute solution of potassium permanganate in water is slowly cooled to freezing-point, crystals of ice separate out; (2) when a saturated solution of the salt is made at a high temperature, and the solution slowly cooled, crystals of permanganate separate; and (3) a condition is obtainable when both solvent and solid separate together, which was called by Guthrie eutectic solution. The authors' observations show that precisely similar phenomena happen with alloys of gold and sodium, and they have proved it by placing sections of the alloys on sensitive plates and exposing them to the  $x$ -rays, when the crystals of sodium and gold can be clearly distinguished. Radiographs were exhibited which showed the crystals of sodium most markedly as in the first condition, the gold crystals of the second condition, a third in the eutectic condition, a fourth exhibiting fine crystals of gold in a eutectic solution of gold in sodium, and also a section of an alloy of gold and aluminium. All these exhibited such marked differences in structure that Mr. Haycock felt that the observations, when carried out, could not fail to have some practical bearing. Professor Roberts Austen was inclined to doubt that, and placed greater reliance upon spectroscopic methods. The President, on the other hand, thought the observations valuable, especially in their bearing upon the ionisation theory. After a brief reference to his early observation that the opacity of substances to the  $x$ -rays increases with the atomic weight of the metallic or basylous constituents, he said that he had in a lecture that day suggested that advantage of this fact might be taken to determine the atomic weight of argon which he had liquefied. There was some doubt as to whether it was lighter or heavier than oxygen, but by submitting both liquids to the  $x$ -rays they would find which was the more opaque. The complex question of solution also came into his low-temperature researches. He reminded the Fellows that the ionisation theory inferred that water solutions especially were electrolytic solutions, both the substances dissolved and the water molecules, or some of them, undergoing dissociation. In that condition certain substances were dielectric—excellent conductors of electricity. Copper sulphate and sodium chloride were good examples, but he found that when such solutions are cooled to a low temperature their dielectric constants decrease until they became absolute non-conductors. On the other hand, he had found that solution of potash, when cooled, increased to four or five times the dielectric constant of water, and the hydrates of sodium and rubidium behave similarly, but proportionately to their atomic weights. He thought that this study might yet throw some light on the theory of solution.

### ELECTION OF FELLOWS.

At this point the scrutators gave in their report, showing that only one candidate (a Minor man) was blackballed. The following were amongst those elected:—Henry Norris Davidge, pharmaceutical chemist, 37 Duke Street, Grosvenor Square, W.; R. Glode Guyer, pharmaceutical chemist, chemist to Messrs. Duncan, Flockhart & Co., Edinburgh; Harold William Harrie, 298 Amburst Road, Stoke Newington, N., senior assistant in the chemical laboratory of Messrs. Harker, Stagg & Morgan, London; George Fowler Merson, pharmaceutical chemist, 55 Northumberland Street, Newcastle-on-Tyne; Frederick Filmer De Morgan, pharmaceutical chemist, Andely Lodge Caeran Park, Newport (Mon.); Thomas Tickle, pharmaceutical chemist, 4 Pakenham Street, London, W.C.; John Welsh, pharmaceutical chemist, 12A Sellar Street, Chester; Paul Thomas White, of Alfred White & Sons, manufacturing chemists, Castle Street, Saffron Hill, E.C.

This was all the business.

## Legal Reports.

### SALE OF FOOD AND DRUGS ACT.

#### ARSENICAL SOAP.

IN the Queen's Bench Division, on May 7, the appeal case, *Houghton v. Taplin*, was argued before Mr. Justice Hawkins and Mr. Justice Wright, sitting as a Divisional Court. Mr. Glen appeared for the appellant, Mr. Houghton, Inspector to the Surrey County Council; and Mr. Lawless for the defendant. Mr. Glen said this was a special case stated by the Richmond Magistrates under the Sale of Food and Drugs Act, 1875. The purchaser called at a shop where arsenical soap was advertised as producing complexions like that [holding up a highly-coloured picture] on persons who suffered from pimples—(laughter)—and having some effect on the skin. The particular soap that was purchased was found on analysis to have no arsenic in it at all, and the Magistrates held that it was a mere soap and that no conviction could be obtained.

Mr. Justice Wright: Do you mean that if a man sold something as bread which turned out to be bricks there would be no conviction?

Mr. Glen said that was the point. The respondent was summoned under section 6 of the Act for unlawfully selling, to the prejudice of the purchaser, a drug—to wit, arsenical soap. On November 24 last appellant sent his assistant, John Churchman, to the shop of the respondent, Wm. Joseph Taplin, and Churchman paid 6d. for a tablet of the soap, which he afterwards handed at the door of the shop to appellant. Churchman was sent simply for a tablet of arsenical soap, and he was supplied with a tablet of "Dr. Mackenzie's arsenical soap, No. 2," wrapped up in printed papers, which described it as "innocent" and "perfectly harmless." Among the papers was the picture to which counsel had directed attention, and on the back of it was a report by Dr. Griffiths, to the effect that he had examined many samples of the soap.

Mr. Justice Hawkins: What is the good of reading this? We are not advertising-agents here for Dr. Mackenzie or anybody else.

Mr. Glen said his learned friend's case was that the transaction which took place was not the sale of a drug. He submitted, on the contrary, that it was so, although the thing sold was a sham drug. It purported to be soap containing a drug. Dr. Griffiths said it contained a very small quantity of arsenic, but the quantity useful for the skin was so small that the soap was absolutely harmless, yet producing a beneficial effect upon the skin. Another of the advertisements enclosed with the soap was from a lady, written from the Hotel Métropole, who said that after using this soap the spots on her face had entirely disappeared, after everything else had failed. (Laughter.)

Mr. Justice Hawkins: Who signs that?

Mr. Glen: Winifred Vernon.

Mr. Justice Hawkins [holding up the pictorial advertisement]: Is this her portrait? (Laughter.)

Mr. Glen: It does not appear so, my lord.

Mr. Justice Hawkins [reading from one of the documents handed in] said the soap had the property of rendering the skin white; in fact, it was represented as a perfect soap for beautifying the skin, and imparted to the skin a natural hue, and [again holding up the pictorial advertisement] that is called a natural hue. (Laughter.)

Mr. Glen said the whole thing was enclosed in a wrapper bearing the name of the seller, and the purchaser told respondent's assistant that the sample was intended to be submitted to analysis, upon which the assistant said that did not matter as it was a patent article. Dr. Stevenson, the public analyst of Surrey, to whom a third part of the purchased tablet was submitted, certified, as to the percentage of foreign ingredients, that the soap free from arsenic was 100 per cent., with an appended observation that there was no authorised formula for arsenical soap. On the part of the appellant, it was contended that arsenical soap was a drug within the meaning of the Act; and on the part of the respondent, that as the soap contained no arsenic there could be no conviction, but that if there had been any offence, the proceedings should have been taken under the Merchandise

Marks Act. And the Magistrates sustained the respondent's contention.

Mr. Lawless: The Magistrates said the appellant had had recourse to a wrong remedy, and that the proceedings, if any lay, should have been under the Merchandise Marks Act.

Mr. Justice Hawkins said he thought the Magistrates were right in their finding.

Mr. Justice Wright agreed, but on this ground only. It appeared that the case was a case of a proprietary drug, and the information being under section 6 of the Act, they were bound to take notice that by the very terms of the section the sale of a proprietary drug was excluded from it. If the question had been whether a person could with impunity sell an article as a drug, and escape because there was no drug in it, he (Mr. Justice Wright) was very clear that they could not, and that the Magistrates would have had to convict.

Mr. Justice Hawkins said his judgment was entirely arrived at from the point that this was not a drug *per se*, and as regarded the 6th section of the Act, he did not dissent from what Mr. Justice Wright said—he only said nothing about it.

The appeal was dismissed with costs.

#### GLYCERINE AND LIME-CREAM.—A CASE DISMISSED.

ON Saturday, at Brentford Police Court, before Mr. M. Sharpe (Chairman) and other justices, James Wilkey Webber, chemist and druggist, of High Road, Chiswick, again came before the Court on a summons charging him with having sold glycerine and lime-cream not of the nature, substance, and quality demanded. Mr. Earle, barrister, appeared on behalf of the Middlesex County Council; and Mr. G. W. Lay, solicitor, defended.

As the case stood, the County Analyst (Mr. E. Bevan) had certified there was no glycerine in the compound, and Messrs. Bannister and Lewin, of the Somerset House laboratory, to whom a sample was sent by the Court, certified that glycerine was present to the extent of " $\frac{1}{2}$  fl. dr. to the 8-oz. bottle." This agreed with the evidence given at the first hearing by the defendant and his assistant. The summons had stood adjourned for all the analysts concerned to be before the Court.

Mr. Earle, in opening, referred to the case decided in the Queen's Bench Divisional Court on the previous day, in which Justices Hawkins and Wright upheld the decision of the Richmond Borough Justices that arsenical soap which contained no arsenic was not a drug. He mentioned this because he believed that an attempt would be made to convince the Bench that this summons must fail on the same ground, if the certificate of Mr. Bevan held good. He did not hold that view.

Mr. Lay: Oh! yes. I shall submit you are out of Court.

The Chairman intimated that all the Court would go into was the examination of the analysts who gave the certificates. It was for that the Court adjourned the hearing, and beyond that they would not go.

Mr. E. J. Bevan, in proving his certificate, stated that he could find no definite traces of glycerine. Being a heavy drug, with a sp. gr. of 1.26, compared with water, glycerine would be the heaviest drug in the compound, and would sink to the bottom of the bottle. If a bottle of glycerine and lime-cream were left in the window for a time, the glycerine would sink and the oils rise, and it would take a great deal of shaking to get the ingredients to re-mix. If it were divided without having been well shaken, the top portion might contain less glycerine than the bottom. He could not say which portion of the whole sample he received. Even were  $\frac{1}{2}$  dr. present, it would be insufficient to have any effect on the compound. The compound, in his opinion, was a drug.

Cross-examined: His portion of the sample might contain less glycerine than the others if the shaking were insufficient.

Walter Tyler, Inspector under the Food and Drugs Act, stated that the portion sent to Somerset House would be the quantity which was left in the original bottle after the other two portions had been taken out.

Mr. Lay: Don't you think it likely the original bottle would be likely to contain the greater portion of glycerine?

Mr. Earle: I will admit that.

Mr. Richard Bannister, chemist from the Government Laboratory, Somerset House, in the course of a lengthy examination, stated that the portion he received was in an emulsion state. He, with Mr. Lewin, took 50 grammes of it, and let it stand six days, and there was no separation. The art in mixing was that it would not separate freely. They submitted the 50 grammes to every possible test. With sulphuric acid they got rid of the water from the oils. Then they tested for sugar and glycerine and lime, and went to work on the residue of 1.78 per cent. for the purpose of finding sugar or salts. This was treated with ether and alcohol; the insoluble part they treated for sugar, and they examined another portion for the purpose of estimating the lime. After these examinations they came to the conclusion that glycerine was present to the extent of  $\frac{1}{2}$  fl. dr. to 8 oz. of the sample. They examined the glycerine in other ways to prove its presence; they burned it, they took its optical value, and tested it by exposure to the air for the purpose of noting its physical power. The quantity they had to work upon was so small that they could not deal with it as they would have liked. The tests they applied showed conclusively glycerine.

Mr. Earle stated that, in the case of Mr. Mann, at Sunbury, the certificate of Somerset House stated the percentages of the constituent parts. He desired to know why a different course was followed here, and such unprofessional language as " $\frac{1}{2}$  dr. to 8 oz." used.

Witness replied that they had never analysed a sample of glycerine and lime-cream before. At Sunbury it was lime-juice, and the sample contained borax. Moreover, they were instructed to analyse for the presence of glycerine. They desired to be as explicit and simple and intelligible as possible, so that the Magistrates should be able to appreciate the information.

Mr. Earle: How much did you receive?—About 4 oz.

But how do you get your data right in the first instance?—The answer is simple. As soon as you get the percentage you work it out into 8 oz.

Why did you give a different kind of certificate in the Sunbury case?—I cannot give a full answer, as I have not got all my documents here.

Mr. Allen Brown (on the Bench): Then the difference in the form of the certificate is caused by the constituents of the sample?—That is the only explanation I can give.

Mr. Earle: Were you aware when you gave your certificate that the defendant had himself sworn that he used a formula which was published with his evidence?—I was not.

When did you first know that the defendant had sworn that his recipe contained  $\frac{1}{2}$  dr. of glycerine?—I read it in THE CHEMIST AND DRUGGIST.

Before or after the certificate?—I cannot say.

Now, Mr. Bannister, did you put it in that form because it would make it appear there was more glycerine than would appear by percentages?—No, I thought if we put it in percentages the man might not get justice.

And you put it as large as possible to make the defendant's case appear well?—No.

Mr. Earle: It is unfortunate gentlemen will try to decide cases.

The Chairman: I must say we do not appreciate your distinctions. We could judge percentages as well as a plain statement. How do you know the sample sent you was of the same proportions as the others?—We have to assume it is equal. If it is not it has been improperly divided.

The Chairman: Do you consider this a drug?—No.

Mr. George Lewin, also of the Government Laboratory, Somerset House, corroborated. Pressed upon the subject of the certificate, he said Somerset House was not bound to any form. If in one case they gave it in percentages, and afterwards found a simpler and better way, they would use the latter. He saw a report of the defendant's evidence in THE CHEMIST AND DRUGGIST, but he would not say if that was before the certificate was given.

The Chairman: I understand you put the certificate in a simpler form so that the Bench could understand it?—Yes.

So the official certificates are in a form the Bench cannot understand? (Laughter.) Do you agree that glycerine sinks?—No, I do not. Anything soluble in water never sinks after solution.

You agree that aqueous parts would sink?—Yes.

Then if the stuff stood in the chemist's shop a long time,

one part might sink to the bottom of the bottle?—It is purely conjectural.

It is only a question of shaking?—No.

Mr. M. Conroy, F.C.S., analyst to Messrs. Evans, Lescher & Webb, of London, &c., testified that at defendant's request he examined the portion of the sample left with defendant. He found glycerine in it, but he did not carry his analysis out to quantities.

After some deliberation, the Chairman said the majority of the Bench were of opinion that the summons must fail. They believed that the portion analysed by the county analyst was from the upper part of the bottle, and that sent to Somerset House from the lower part, and that as the glycerine sank this would account for the discrepancy in the certificates. They allowed no costs to either side.

#### THE ASSAY OF MILK ANALYTICAL DISPUTE.

BEFORE Mr. D'Eyncourt, at North London Police Court, on Monday, the hearing of the adjourned case of the Hackney Vestry v. Brown was resumed. Mr. Bodkin was counsel for the Vestry, and Mr. C. V. Young defended. The case had been adjourned to enable Mr. Young to call the analysts from the Government Laboratory at Somerset House who made the independent analysis, and declared that there was no conclusive evidence of added water in the portion of the sample submitted to them. As we previously reported, Mr. Leo Taylor, the Hackney public analyst, certified that the milk in question contained 6 per cent. of added water. His opinion was backed up after separate analyses by Mr. Otto Hehner, Mr. Bernard Dyer, and Mr. Bevan, each of whom operated upon a portion of the sample, and handed on the bottle to the other. The third portion, which the inspector had left with the defendant, was sent to Somerset House for analysis, with the result stated.

Mr. Leo Taylor was recalled for cross-examination by Mr. Young. He said that when he made his analysis he estimated the total solids in the first instance, and then the total fat and ash. If his estimation of the total solids was wrong, of course it would upset the whole calculation. He checked his figures by taking the gravity and finding the total. The Society of Public Analysts based their system upon thousands of analyses. It was not the case that each analyst thought himself right and his brother-analyst wrong. The analysts at Somerset House and the Society of Public Analysts had different methods of milk-analysis, and the Society considered theirs the more accurate. If there was any foreign matter in the milk it would make the figures wrong, but this the analyst guarded against. He did not spare himself trouble in arriving at an accurate result.

By the Magistrate: The three analyses of the same sample did not exactly agree.

Mr. Bodkin: But they were suspiciously near it. (Laughter.)

Cross-examination continued: Did not say when I sent the sample to Mr. Hehner and others that a sample had been sent to Somerset House, and that I wanted their opinion upon it. The cork of the bottle must have been taken out four times to enable the four analyses to be made, but that would not affect the quality of the milk. The milk had been preserved with formaline before being sent round to the analysts. Nearly a month elapsed before the sample got to Mr. Bevan and to Somerset House. Did not know that at the last hearing Mr. Hehner said that one of the recommendations of the Select Committee was that the reference as an appeal should be taken from Somerset House.

The Magistrate: He said there should be a Court of Reference. But is it worth while going into this?

Mr. Young: They tried to influence your mind against Somerset House by saying it.

Mr. Bodkin: Somerset House is no appeal whatever. Their certificate is not conclusive.

Mr. Young: The fact is that in that recommendation it was said that no public analyst should be on that Board of Reference.

Mr. Bodkin then examined Mr. Leo Taylor as to his methods of analysis, and elicited that he sought for the solids and fat, and drew his conclusions as to the water from the results. By taking the specific gravity of the milk they were able to find what the non-fatty solids were. This

was very easy. He knew that the tables prepared by Dr. Bell, of Somerset House, had been criticised by analysts. He did not adopt the method laid down in those tables, and therein lay the point at issue between the Society and Somerset House. The fat could not be completely separated from the solids not fat after decomposition had commenced. It was impossible to thoroughly exhaust the fat and leave the non-fatty substances entirely free from fat. He considered that decomposition must have been present in the sample analysed by Somerset House, because there was no formaline in it.

Mr. Young: But boracic acid had been added.

Mr. Bodkin: We shall come to that by-and-bye.

Mr. Taylor added that the greater the decomposition the less accurate the analysis. In most cases the decomposition raised the quantity of fatty solids. The fact of the milk curdling prevented an accurate division. When the sample in question was submitted to him for analysis it was perfectly correct. Boracic acid was added to the milk to preserve it for a day or two. It was not calculated to avert decomposition for several weeks. Boracic acid would be used in solution. Dry crystals would not be put into the milk, and therefore he estimated this would make 1 per cent. of added water. But the presence of boracic acid in this sample did not account for all the added water found. The removal of the cork would not affect the milk where formaline had been added, but it would accelerate decomposition where there was no preservative.

Dr. Bernard Dyer was also recalled, and gave an interesting lecture on milk-analysis. The boracic acid would add to the total weight of the ash, and the addition of the acid would add to the total of water. The average of boracic acid allowed was 1 pint of solution to 16 gallons of milk. He agreed that it was difficult to ascertain the exact quantities of solids and fats when reduced to dryness. When the fat solvent was put in it created a kind of toffy from the sugar—a hard substance, which the solvent might not thoroughly act upon. Therefore it was difficult to determine the percentage.

By the Magistrate: We have to make allowances for decomposed milk. If we did not make such allowances, it would tend to show more water still. It had been found that the Somerset House tests were in some instances incorrect. The witness showed the Magistrate how, by the aid of ordinary blotting-paper and ether, it could be ascertained what were the constituents of milk, which was far better (he said) than the drying-process adopted by Somerset House.

Mr. Bodkin said he did not wish to introduce the *odium analyticum* too much, but he must say there had been a good deal of friction between the Society of Public Analysts and Somerset House.

Mr. Bevan was also recalled, to be examined as to his analysis.

By Mr. Young: It is chiefly in regard to milk-analysis that we don't agree, and this owing to the different methods of analysis. We say ours is best. They say theirs is.

For the defence, Mr. Young contended that the sample sent to Somerset House was a good one; in fact, it was good now as shown in the bottle in Court, whilst that which had been sent round to the different analysts had been endangered by the frequent removal of the cork, notwithstanding the presence of the formaline.

The Magistrate: The only inference I draw is that if Somerset House had used the same method of analysis as these other four gentlemen their decision would be the same. But there is a difference of opinion as to which of the methods is correct. The real issue is as to which is the proper method of analysis.

Mr. Young now called Mr. Richard Bannister, who said he had been in the Inland Revenue Laboratory at Somerset House for thirty-four years, and for thirty-two years had been engaged in this particular work. He had analysed a great number of samples of milk and other things. On March 31 he received the sample in question, and he would like the Magistrate to look at the sample now. It was not even yet turned into curds. He analysed it in conjunction with Mr. Lewin; so the work had all been checked. When they received the sample they turned the whole out into a suitable vessel. They were careful to get it into solution, as if they found it in any way curdled they did not go on with the

examination. In this case the sample was in very good condition. They took from the sample, after thoroughly mixing, three weighed portions:—one was for the estimation of the total solids; the second for the estimation of the solids not fat and fat; and the third the duplicate experiment for non-fatty solids and fat. They found total solids 12.30 per cent. In the case of the solids not fat, he never took them down to dryness, as stated by Dr. Dyer, but took them down to a moist condition, and used alcohol, and afterwards ether, for the purpose of dissolving out the fat. They had suitable instruments for the purpose of grinding down the solids—fat and not fat. The ether was from time to time poured off into a weighed vessel, and this operation was continued until the solids not fat were in a condition of fine powder or flour. When they found they had got out the whole of the fat, the solids not fat were dried and weighed. The ether was evaporated down, and then the fat was weighed. The result obtained in this case was:—total solids, 12.30 per cent.; solids not fat, 8.51 per cent. in the first experiment; solids not fat, in the second experiment, 8.55; the fat in the first experiment, 3.85, and, in the second, 3.77. So that the united result was:—total solids, 12.30; second experiment, 12.36; third, 12.32. The ash present in the milk was  $\frac{7.8}{100}$  per cent., and the quantity of boracic acid did not exceed 7 gr. to the gallon. On account of the presence of boracic acid, Mr. Lewin and himself gave a certificate in this form:—Taking 8.5 per cent. of non-fatty solids, the sample does not afford evidence of added water. On account of the milk having been kept, there was a change in the composition of the sugar naturally present in the milk. A portion of it had been converted into alcohol, and a further portion into acetic acid. A portion of the nitrogenous matter had been converted into ammonia. But the changes that had taken place from those causes had not reduced the solids not fat more than  $\frac{2.3}{100}$  per cent. So that really the milk when in its original state would have solids not fat 8.7 per cent., and fat 3.81 per cent., showing that it was milk of very fair quality. There was no occasion to make allowances for decomposition, and had he done so he would have made it slightly better for the defendant. They got the solids out by the maceration process. The solids that are fat, added the witness, would, by Dr. Adams's method, be added to by that which was on the hands of the operator, who handled the paper as demonstrated by Dr. Dyer, and any extractive matter obtained from the paper itself.

In reply to Mr. Bodkin, Mr. Bannister said he would never use the coil process. The specific gravity of milk increased for twenty-four hours after it was milked. Did not take the specific gravity of this particular sample, because it was impossible. But this did not prevent a proper analysis being made. The specific gravity spoken to by Mr. Taylor (1.029) was a low one. The uncorking of the bottle would admit air, and there would be air in the milk already. By De Gruerber and Adams's process, 3.30 was a fair average of fat. The witness was asked as to the professional standing of Mr. Hehner and Dr. Dyer, but he declined to be personal; and he repeated, in the face of what had been said, that there was no doubt that it was an exceedingly good milk in the bottle. The witness was shown certain tables of experiments which Mr. Hehner had demonstrated to be inaccurate. But he replied:—I see these red-ink statements, but do not admit that they are facts. He was not saying that Mr. Hehner, Dr. Dyer, Mr. Taylor, and Mr. Bevan were wrong in their conclusions. He was not responsible for the sample of milk they operated upon. He only spoke of the sample submitted to himself, and he maintained his conclusions. He did not admit that he was in antagonism to the public analysts; and if it was a fact that in many instances Somerset House did not confirm the results of the public analysts, it was only after careful research.

The Magistrate said he thought he had heard sufficient. He would not trouble Mr. Young to reply for the defence. This was a penal matter, and, as there was a doubt in it, he must give this in favour of the defendant. They had there two samples of milk. Four analysts of eminence spoke on one side, and two, equally eminent, on the other side. Mr. Bannister considered there must have been a difference in the two samples. That might explain the whole thing. Then there was a difference in the systems of analysis. He (the Magistrate) could not pretend to judge which was the correct system. Mr. Bannister appeared to have gone into

the matter very fairly, and the other gentlemen, he believed, were fair in their evidence as well. He (the Magistrate) must also take into consideration the fact that the defendant, acting on the advice of his advocate, sent his portion of the sample to Somerset House for analysis, which a man conscious of having done wrong would hardly have assented to. Therefore he would dismiss the summons.

Mr. Bodkin: I am told that another analyst examined the sample before it went to Somerset House, and he found it wrong.

The Magistrate: I have not heard it, and it is not before me now.

Mr. Bodkin: It is an old trick to send the sample to Somerset House, in order to get an adverse decision.

Mr. Young asked for costs, and the Magistrate allowed him seven guineas.

#### SALICYLIC ACID IN RASPBERRY-VINEGAR AND GINGER-WINE.

AT Liverpool Police Court on May 5, David Cohen, a shop-keeper, was charged with selling raspberry-vinegar which was said to contain 79 gr. of salicylic acid to the gallon, and ginger-wine said to contain 88 gr. of salicylic acid to the gallon. Mr. Collingwood Williams, county analyst, gave it as his opinion that the quantity of salicylic acid in the drinks would be likely to affect the digestive organs, particularly in the case of children. From four to eight grains per gallon would have been all that was necessary. He attributed the presence of so large a quantity to carelessness on the part of the manufacturers. Dr. Manby gave corroborative evidence. For the defence, Mr. A. G. Steel contended that there was nothing in the mixture in any way injurious to health, and in support of this plea called Drs. Steeves and Mulliner, both of whom agreed that the quantity of salicylic acid found by the analyst was in no way inimical to health, in fact, Dr. Steeves considered that in this rheumatic climate it would be of advantage to those who drank it. Mr. Davies, analytical chemist, also gave similar evidence. Mr. Stewart dismissed the case.

#### SYRUP OF RHUBARB.—INVOICES AS GUARANTEES.

AT Bingley Petty Sessions, on May 5, Inspector Randerson laid an information against Stephen Thos. Sharp, grocer, Micklethwaite, for having sold syrup of rhubarb below the recognised standard. The certificate of Mr. A. H. Allen, West Riding analyst, set forth that according to the B.P. this drug should have a specific gravity of 1.310, which indicated that it was composed of 80 per cent. sugar and extract and 20 per cent. of water. The sample under analysis showed a specific gravity of 1.238, which gave 62 per cent. of sugar and extract—or 18 per cent. too little—and 38 per cent. of water. The defendant had given notice that he intended to rely upon a guarantee from the wholesale dealer.

Mr. Naylor, for the defence, said the guarantee consisted of the words "guaranteed genuine" written opposite the item in the invoice, the suppliers being Messrs. G. L. Greenwood & Co., wholesale druggists, Keighley. Mr. Naylor handed in the invoice. Mr. Hankinson, who represented the prosecutors, said this was not a guarantee within the meaning of the Act. The Chairman observed that the invoice, or guarantee, was not signed. Mr. Naylor said it was written on the printed form of the firm, and he asserted that it was not essential that this should be signed. Ultimately the Magistrates found that Mr. Sharp bought this syrup of rhubarb on a written contract, and sold it as he bought it, and they therefore dismissed the case.

#### THE APOTHECARIES ACT.

##### APOTHECARIES' SOCIETY v. ELLINOR.

OUR report of this interesting case last week gave the evidence for the prosecution at length, but the defence, as it did not come on until late on Thursday afternoon, was only briefly given. As it contains points of considerable interest we give it more in detail.

Mr. Neal set up the defence that no case had been made out. There must be evidence of systematic practice, and there had been no such evidence adduced. It was not charged that the defendant had attended the witnesses;

the charge was that he had prescribed, dispensed, and supplied medicines—not one of these things separately, but the whole of them. He admitted that Mr. Ellinor had attended Mr. Meggitt in the capacity of a medical man, and there was no law to hinder him from doing so, or even to hinder any old woman from doing that. In all he had done the defendant had acted quite openly, and had won the esteem and affection of a considerable number of persons who had profited by his knowledge. Defendant was qualified to practise midwifery, he was a pharmaceutical chemist, he had a full dental qualification, and he held a degree of Doctor of Medicine conferred upon him by the University of Philadelphia. Mr. Neal went on to argue that the only penalty imposed by the Medical Act of 1858 was upon persons falsely pretending to be registered practitioners, and the only disadvantage placed upon unregistered practitioners was the disability to sue for their charges and to hold certain appointments named in the statute. The Medical Act of 1886, Mr. Neal said, created the colonial and foreign branches of the register. It appeared that these branches could only be called into existence by the order of the Queen in Council. The defendant was only prevented from having his diploma tested, and, if found effectual, duly registered, by the fact that this part of the statute had never been called into active existence in the manner provided, although such an order had been made in the case of colonial practitioners. He contended that under the provisions of section 12, sub-section 3, the defendant's right to practise meanwhile was recognised. That section provided that a British subject, practising medicine or surgery, or a branch of medicine or surgery, in the United Kingdom, if he had continuously practised the same in the United Kingdom or elsewhere for a period of not less than ten years, might under certain conditions be registered. That must mean that the law recognised the right of such person so to practice, otherwise the statute was reduced to the absurdity of stating that the qualification to enable registration was that the applicant should have systematically and continuously broken the law for upwards of ten years.

His Honour asked Mr. Alexander, who appeared for the Society, what other meaning, if any, he should suggest as being attached to that section.

Mr. Alexander replied that Mr. Neal's argument appeared to be based upon the fallacy of not distinguishing between registration and qualification.

Mr. Neal said his argument was exactly the opposite of that, inasmuch as if a person was already registered he would not be likely to request that he might be registered again.

Mr. Ellinor was called, and, in reply to Mr. Neal, said he was a pharmaceutical chemist duly registered, a licentiate of midwifery of Dublin, a registered dental surgeon, and had been practising medicine for twenty years. He produced to the Court a diploma conferring upon him the degree of Doctor of Medicine of the University of Philadelphia, which was granted him on examination.

His Honour: Were you examined in Philadelphia?

The Defendant: No; by written papers.

Proceeding, Mr. Ellinor said he applied to the Medical Council for registration under part 2 of the Medical Act of 1886, and was informed that that part of the Act was not yet operative. That was his position now. The moment that part of the Act was made operative he was willing and desirous of having the judgment of the Council on his diploma and examination.

Cross-examined by Mr. Alexander: He had been practising medicine for over twenty years. He had made no secret of that fact.

And you are proud of it?—I am proud of what I do.

Proud of the knowledge and skill which you say you possess?—Yes.

In reply to further questions, defendant admitted that he attended Mr. Meggitt in the early part of 1896, and wrote out a prescription for him. The prescription was prepared by his assistant at his shop in Spital Hill, and sent up to Mr. Meggitt. The statement made by Mrs. Hirst was true. He attended and prescribed for her, and his assistant in that case also would make up the prescription.

Mr. Alexander: Is it not a fact that at your chemist's shop you have a private consulting-room?—I have one where I practise dentistry.

And do you not in that room see patients and prescribe in medical cases?—Undoubtedly I do.

And the prescriptions you there prescribe are made up in your shop, and delivered to the patients, who pay for them?—I write the prescriptions, but rarely myself see them made up.

Is not that what you get your living by?—I get my living in various ways.

His Honour said he had not the slightest doubt about the judgment he was forced to give. He said "forced," because he did not think anyone who had been in that court and heard Mr. Ellinor give his evidence could fail to think that he had given it in a way eminently to his credit. There had been no attempt to conceal or even to modify what he had done. If it were a question of the moral or social standing of Mr. Ellinor, he thought everyone in court would pass the highest opinion on him. Unfortunately, there were one or two cases which appeared to him to decide the question beyond all doubt. The judgment of Justice Cresswell in particular gave an absolute ruling on this point, and, however much he might appreciate the way in which Mr. Ellinor had conducted himself that day, he was bound by the judgment. Before going further, he would like to say, in the strongest and clearest way he could, that, however hard at times it might seem, he entirely approved of this class of legislation, and thought it most beneficial. They did not allow even lawyers without a diploma to practise in their courts, and to give advice which might lead people astray; still more important was it that they should not have unqualified people running about the country and dealing out destructive poisons to uneducated and ignorant people. They must not therefore suppose that what he had been saying with reference to Mr. Ellinor was in any way throwing a doubt on the beneficial character of the legislation. In this particular case it might seem very hard upon Mr. Ellinor, but it was the law, and he was there to administer that law. He had no choice with regard to the amount, and gave judgment against Mr. Ellinor for 20%, the penalty sued for.

Mr. Neal asked his Honour not to allow costs.

His Honour (shrugging his shoulders) declined to say anything about costs.

Mr. Alexander: It is usual in such cases to ask for costs on the higher scale, but in consideration of the character of the defendant he would merely ask for the usual order as to costs.

The case then concluded.

#### THE APOTHECARIES' SOCIETY v. FELTON.

ON Monday, at the Wandsworth County Court, before Judge Lushington, the Medical Defence Union, on behalf of the Apothecaries' Society, sought to recover from a man named Felton, "a medical botanist," of 171 High Street, Battersea, a penalty of 20% for practising as an apothecary.

Mr. R. W. Turner was counsel for the plaintiffs. The defendant did not appear, nor was he represented.

It was stated that on Saturday, September 12, last, the defendant was in a trap in the Battersea Park Road. There was a large crowd around the trap, and the defendant was addressing them upon medical topics and selling medicines at 6d. a bottle. He was giving away handbills which bore the following:—"J. Felton, medical botanist, late army apothecary, eight and a half years in India."

Mr. Turner: This brings him under the Act I think. Unfortunately there are too many of these army men about.

His Honour: But do not all quack doctors prescribe medicines?

Mr. Turner: No, they do not prescribe. I shall prove that the defendant used the stethoscope and made up mixtures for a customer. Mr. Tyrrell, a solicitor's clerk, said that on February 23 last he called at the defendant's shop, the window being full of herbs and herbal medicines. Defendant told him that he had a cold, and examined him in a room at the rear of the shop, using a stethoscope and holding his hands. Defendant said the witness's left lung was affected with asthma, and gave him a written guarantee to cure him within four days. The price to be paid was 5s., half to be returned if a cure was not effected. They then returned to the shop, when the defendant pounded up some medicine and mixed it in his presence and gave it to him.

Mr. Turner: I have another witness who went to the shop,

and defendant looked at his finger nails and said he had consumption. The defendant is now on the tramp to Wales, and we want to stop him selling these medicines.

His Honour imposed a penalty of 20%, with costs on the B scale.

#### THE SALE OF POISONED GRAIN.

AT Ely Petty Sessions, on May 6, John Allsop, of Lakenheath, was charged under the Poisoned Grain Act, 1863, with selling a poisonous preparation, not for agricultural purposes, and calculated to destroy life. Defendant pleaded that he used the preparation for vermin. Police-constable Simpson, who was in plain clothes, saw the defendant in the Corn Exchange, and paid him 1s. for a packet of poisoned grain, which killed a rat and two sparrows that had picked up a grain or two accidentally. Mr. A. Howard, analytical chemist, found strychnine in the corn. Defendant was fined 5s., with 12. 18s. costs. Thomas Ward was charged under the same Act with having laid down some poisoned wheat. Dead birds were found in his garden, and a police-constable said he found thirteen on a rubbish-heap in defendant's garden. He opened three, and found poisoned wheat. It appeared, however, that no analysis had been made, so the Bench had no alternative but to dismiss the case.

#### THE COST OF CO<sub>2</sub>.

ON May 7, in the Queen's Bench Division, Mr. J. B. Wallace, Oldpark, Belfast, and another, sought to recover from Mr. Howard Lane, Corporation Street, Birmingham, damages for breach of contract. It was alleged that the defendant undertook to supply a plant to turn out 2 cwt. of liquid carbonic-acid gas daily, and guaranteed that the cost of production of the gas by that plant should not exceed a half-penny per lb. The plaintiff's case was that the gas could not be produced by the plant supplied by the defendant at a less cost than 2½d. or 3d. per lb., and claimed 408d., being made up of moneys paid to the defendant and expended in connection with the erection of the machinery. For the defence it was stated that although the machinery was not at present capable of producing gas at the indicated rate, it could, with a little trouble, be made efficient in the terms of the contract. The case was adjourned for two months so that the defendant might have an opportunity of putting the machinery in proper working order, with liberty to either party to apply.

#### MERCHANDISE MARKS ACT AND SAUCE-BOTTLES.

AT West London Police Court the Birmingham Vinegar Brewery Company, manufacturers of Holbrook's sauce, summoned William Trusler, a grocer, of Notting Hill, for unlawfully having in his possession, and for sale, a bottle of Worcester sauce, to which a false trade description was applied. The bottle, which bore the name of Holbrook in embossed letters, contained a sauce of another man's manufacture. The question in dispute was whether the name of Holbrook amounted to a false trade description, having regard to the other information on the bottle. Mr. Lane said if he picked up the bottle in a restaurant or elsewhere, and noticed the name of Holbrook upon it, he would come to the conclusion that the contents were of Holbrook's manufacture. William Thomas Purrett, the manufacturer of the sauce in Holbrook's bottle, said it was the custom to put cheap sauces in second-hand bottles bought from dealers. Mr. Lane believed the defendant had acted innocently, and on this ground dismissed the summons, but he strongly condemned the mode of transacting business. He refused to allow the defendant his costs.

#### PATENT EYE-GLASSES.

ON May 8 the patent action, Wood v. Raphael, came before Lords Justices Lindley, Lopes and Rigby as an appeal by the plaintiff against a decision of Mr. Justice Romer. The action was brought to restrain the alleged infringement of a patent (No. 4,280 of 1890) for improvements in pince-nez or double eye-glasses. The plaintiff's eye-glasses had a fixed bridge, which was stated to be an important feature in eye-glasses

in cases of astigmatism, and two hinged or pivoted placquets, or metal plates, for the nose, which were supported on springs attached to the rims of the glasses or to the bridge-bar. The plaintiff's patent was for the combination of the fixed bridge with the pivoted placquets. It was conceded that both items of the combination were known and had been separately used in connection with eye-glasses. Mr. Justice Romer held that the patent was void for want of invention, and dismissed the action. The plaintiff appealed, and the Court of Appeal supported Mr. Justice Romer's decision and dismissed the appeal.

#### COUNTY COURT CASES.

##### "ARSENICAL" SOAP CASE.

#### RETAILER GETS DAMAGES AGAINST THE MANUFACTURER.

AT the Kingston-on-Thames County Court on May 7, before Judge Lushington, Q.C., Mr. Alfred Higgs, J.P., chemist and druggist, Richmond Road, Kingston, sued Messrs. Yardley & Co. (Limited), toilet soap-manufacturers, Tottenham Court Road, London, for 50*l.* damages, alleged to have been sustained by the misrepresentations alleged to have been made by the defendants.

Mr. Arnold White, barrister, appeared for the plaintiff, and Mr. A. Spokes, barrister, for the defendant company. The hearing occupied more than five hours.

Mr. White, in opening, said the plaintiff, Mr. Alfred Higgs, was a fully qualified chemist, and a gentleman of some position in the town of Kingston, where he had carried on business for eighteen years. Formerly he was a member of the Kingston Corporation; at present he was a member of the Kingston Borough Bench. The defendants were a limited liability company. On January 24, last year, the defendants' traveller called on Mr. Higgs and solicited an order. He produced a sample of a certain soap he was anxious to sell. It was described in books in these terms: "For the complexion—Absolutely harmless. Dr. King's arsenical toilet-soap, 9*d.* per tablet; three for 2*s.*" The tablet was stamped "Dr. King's arsenical soap," and it was wrapped up in a paper upon which were printed these words: "Triple-milled and super-fatted with finest cold-cream. Dr. King's arsenical soap. Guaranteed absolutely pure and harmless. Specially recommended by the Faculty for preserving the skin and improving the complexion." The traveller said: "This is a genuine soap of our manufacture, and equal to any made. It is selling well, and if you will buy a quantity we will print your name on the wrapper." On the strength of these representations, Mr. Higgs gave a small order. On December 7, 1896, Mr. Higgs sold a tablet of this soap in the ordinary course of business, and as a result of this sale proceedings were taken against him under the Sale of Food and Drugs Act. He was sued before the Kingston Borough Magistrates for selling a drug not of the nature, substance, and quality demanded, and was fined 10*s.*, and ordered to pay 16*s.* costs.

Mr. Spokes: I am going to contend that that conviction was wrong. There have been two magisterial decisions near here that "arsenical" soap containing no arsenic is not a drug, and the summonses were dismissed.

His Honour: Suppose it was decided the conviction was wrong. That would not affect my judgment.

Mr. Spokes: With respect, I think it would.

Mr. White (proceeding) said this prosecution and conviction was a very serious thing to his client. He did not quarrel about the proceedings before the Magistrates, or about the action of those who had to carry out the Act. He thought prosecutions in such cases were praiseworthy. The only question for his Honour to determine was, Who was to suffer—Mr. Higgs, who was absolutely innocent of any offence, or Messrs. Yardley, who were the real offenders. What was the attitude of this firm? They were written to by Mr. Higgs's solicitors, asking for their help in the police-court proceedings, which they refused; and subsequently Mr. Higgs saw the managing-director, who admitted to him that there never was any arsenic in the soap at all.

His Honour: What is my position in relation to the decision of the Magistrates?

Mr. White: Your Honour is bound to regard the decision as a correct decision.

His Honour: On what authority?

Mr. White: Because it stands. It may or may not be upset, but it stands. I don't quarrel with the conviction, but I say the defendants have rendered themselves liable to an action for damages under the common law with reference to deceit. Counsel quoted the case of *Pete v. Day*, in the House of Lords, in which Lord Herschell laid down that if a person made representations recklessly, and without caring whether they were true or not, the person injured thereby was entitled to damages. This applied exactly to Messrs. Yardley & Co., for the conviction was the natural result of the original fraud. But, whether or not he was convicted, Mr. Higgs was still a sufferer, in consequence of the indignity inflicted upon him by the mere fact of the prosecution. Whatever had happened at the police-court was immaterial. The plaintiff's claim fell within section 15 of the Sale of Goods Act, 1893. When the soap was sold there was an implied condition that it was free from any defect. The defect was the absence of the particular drug—arsenic—which it was represented the soap contained. It would not be apparent upon reasonable examination, Mr. Higgs not being an analyst.

The Judge: You distinguish "arsenical" soap from golden soap. You would not expect to find gold in golden soap.

Mr. White: No, but this is a real name, for there is supposed to be a real thing in the soap.

His Honour: And I suppose if you had a thunder-and-lightning soap, you would not expect to find thunder and lightning in it. (Laughter.)

Alfred Higgs, the plaintiff, was sworn, and said when he gave the defendants' traveller an order for the soap he relied upon the statement he made, as well as upon the representations contained in the wrappers. He read the summons on December 15. On December 16 he proceeded to the company's premises and saw Mr. Challis, the managing-director. He asked him if he would defend the case, and he said he did not think he could. In fact, he declined. He then asked him how much arsenic was supposed to be in the soap, and he replied that there was no arsenic at all in it. Witness asked him who Dr. King was, and he said that Dr. King was mythical. He also said that "arsenical soap" was only a fancy name. Witness defended the case before the Magistrates, but was convicted and fined. Three months after the conviction his receipts fell off to the extent of 37*l.* 8*s.* 3*d.* He also incurred legal expenses to the extent of 21*l.*

Cross-examined by Mr. Spokes: Witness was certainly under the impression that the soap contained arsenic.

Mr. Spokes: Then, being a poison, why did you not enter it in the book at the time of the sale?

Witness: Because, from a judgment in the House of Lords, that is necessary only when the poison is sold in poisonous quantities.

Mr. Spokes (incredulously): I should like to see that case.

Joseph Bargary, assistant to Mr. Higgs, also gave evidence. Cross-examined: He did not hear the defendants' traveller say there was any arsenic in the soap.

Mr. Spokes said the allegation of fraud made by the plaintiff against the defendants was a very serious charge, and he was there to prove that there was no fraud. Lord Bramwell had said there could not be legal fraud apart from moral fraud. In this case the defendants had authorised no fraud. When the defendants' travellers called upon chemists with this soap they had explicit instructions to tell them that although it was called "arsenical" soap, still it contained no arsenic, and, in point of fact, the traveller in this case did so. He also urged that, without the arsenic, the soap was still a merchantable commodity, for which anyone would be willing to pay the price charged, and that therefore there could be no recovery by the plaintiff. The company sympathised with Mr. Higgs, and thought he had suffered a great hardship by the prosecution and conviction; but the company were not responsible for that, as they held that the conviction was altogether wrong. And if the damage was caused by the conviction, then it could not be said that it was caused by his clients. It was laid down in the Act that drugs should include medicine for internal or external use. No one could say that this soap was a drug.

His Honour: What would you say to sweet oil? Would that be a medicine?

Mr. Spokes: Certainly not.

His Honour: Yet many people use it as a medicine. What do you say to turpentine?

Mr. Spokes: I say that is not a drug.

His Honour: And surely that is often used as a medicine?

Mr. Spokes: It is occasionally, but I am perfectly clear that toilet soap is not a medicine.

Mr. W. R. Challis, managing-director to the defendant company, was sworn, and said their travellers were given instructions to inform all chemists that the soap contained no arsenic. The description, "Dr. King's arsenical soap," was used because there was a demand for some arsenical soap, and they decided to bring out a soap described as containing arsenic, which contained no arsenic.

Mr. Spokes: What is your experience of arsenical soap?

The Witness: That you might plaster your skin with it to very little purpose.

Mr. Spokes: Is there any pecuniary object in leaving out arsenic?

The Witness: It costs about 9d. to the hundredweight of soap.

Cross-examined: He put no arsenic into the soap, because he knew of other "arsenical" soaps that contained no arsenic.

Mr. White: Do you know Dr. Mackenzie's soap contains arsenic?—Plenty do. Plenty, except yours?—We put it in now. Did you intend to deceive the public?—No. Why call it arsenical?—Because we wanted a trade-name to enter into competition with other soaps. Then you would have called it anything?—I cannot say. Is that truthful?—I am afraid commercial truth is not Biblical truth always.

His Honour: That is to say, it is not Gospel truth.

Herbert Mogford, defendants' traveller, was called, and stated that when Mr. Higgs looked at the soap he said to Mr. Higgs: "Of course you know it contains no arsenic."

Mr. Higgs denied this.

His Honour, in summing up, said if the managing-director of the defendant company was so loose in his employment of terms for the sale of something which was not what it purported to be, he must not be surprised if his word suffered when such strong evidence was brought against it. After reviewing the chief features of the case, his Honour said he held that the institution of the proceedings in the first case was right and proper, and defendants therefore became liable in the action now being tried; he should therefore award 22s. for what had been actually expended. He then had to deal with what Kruger would call "moral damage," and having regard to all the circumstances of the case, he should award a further sum of 10s., with costs on the C scale.

#### CHEMISTS' CASES AT CROYDON.

ON Tuesday at the Croydon County Court, before Judge Lushington, Josiah Clarke, chemist, 38 George Street, Croydon, obtained judgment for 1s. 10s. against Lieut.-Col. Harrison, for balance of an account for goods supplied.

At the same court, Fredk. Dudley Hayward, trading as the Mackenzie Drug Company, of 9 Gracechurch Street, City, was sued by Messrs. Matthews & Smith, of Tamworth Road, Croydon, for 30s. 6s., the amount of a dishonoured cheque. The case had been remitted from the High Court. Mr. Hood, for the plaintiffs, said that the defendant, in addition to being a chemist, was a diamond merchant and a company promoter, and lived in a large house at Thornton Heath. He asked for a committal order. His Honour ordered the defendant to pay 15s. within fourteen days and the balance at 10s. a month.

#### THE CHEMIST AND THE CHILDREN.

At the Shrewsbury County Court on May 5, before Judge Harris Lea, Mr. Tertius Robert Moses, chemist and druggist, High Street, and 24 Victoria Street, Shrewsbury, sued Mrs. R. R. Wingfield, of Bedford Park, Chiswick, for 28s. for the general maintenance of the two illegitimate children of the defendant's late husband. Mr. Moses, who stated his own case, said that Mr. Wingfield died early last year, leaving two illegitimate children, and that before his death Mr. Wingfield gave him written instructions to take charge of the two children, promising to settle 1s. per week on each of them if he (plaintiff) would take them into his charge.

Mr. Moses said an effort was now being made to make him keep the children for about half the amount promised. He (plaintiff) was a poor man with a large family of his own dependent upon him, and Mrs. Wingfield was trying to saddle him with costs, which "was not the act of a friend, but that of a bitter enemy, and most disgracefully dishonourable." He begged and prayed that his Honour would make an order on Mrs. Wingfield to pay him 8s. per month for the maintenance of the two children until they were 21 years of age. The defendant's solicitors repudiated liability, and the counsel stated that the plaintiff had used threats to the defendant, who was an old lady of over 70 years, and on that she very foolishly sent him money. His Honour said either the plaintiff had no case, which he thought was the fact, or he was incapable of stating it. He should give judgment for the defendant with costs.

#### THE LEGALITY OF KNOCK-OUT SALES.

MR. BRYCESON stated to Judge Addison, at the Woolwich County Court on Wednesday, that about six months ago an action, *Leopard v. Litoun*, was heard at this court. Two dealers in London attended a sale by auction of surplus Government stores at the Royal Arsenal, and arranged that the plaintiff should refrain from bidding for a lot of sweet spirit of nitre, and that the defendant should bid for and buy it, on the understanding that they would divide the profits afterwards. Defendant sent Leopard 5s. as his share of the profits. This was refused, and the defendant ultimately resold the goods to a firm of London druggists at a profit of 7s. 10s. The deputy-judge who heard the case decided that the transaction was an illegal conspiracy to defraud the War Department, and non-suited the plaintiff. The plaintiff's counsel appealed against the decision, and the High Court had decided that the appellant was entitled to succeed, set aside the non-suit, and gave a verdict for the plaintiff for 7s. 10s., with costs. He asked Judge Addison to set aside Mr. Sill's judgment accordingly. His Honour made the necessary order.

## Business Changes.

*Notices of changes in the retail trade, and opening of new businesses, are inserted in this section, free of charge, if properly authenticated.*

MR. HOBLYN, of Exeter, is about to open a new establishment at Tavistock Road, Plymouth.

MESSRS. BOOTS (LIMITED) are having new business premises erected at the junction of Silver Street and Harpur Street, Bedford.

MESSRS. S. KUTNOW & CO. (LIMITED), makers of the Improved Carlsbad-powder, have removed from 66 Holborn Viaduct to 41 Farringdon Road, E.C.

MR. CHARLES W. DOWSWELL, chemist and druggist, 17 Oxford Street, and 51 Easton Street, High Wycombe, has disposed of his Oxford Street establishment to Mr. Ralph Bristow. Mr. Dowswell will continue to carry on the Easton Street business.

MR. J. F. ANDREWS, of Eastbourne, has transferred his Pevensey Road business to his brother, Mr. H. T. Andrews, and has taken over the business carried on by the latter at Grand Hotel Buildings, which he will continue as a branch in connection with his Carlisle Road establishment.

MR. GEORGE F. MERSON has disposed of his retail drug-business, 89 Shields Road, Newcastle-on-Tyne, to Mr. Chas. H. Garbutt, who has been managing it lately. Mr. Merson intends to devote the whole of his time to the North of England School of Chemistry and Pharmacy, and other professional work.

MR. THOMAS CRITCHLEY, chemist, 10 King William Street, Blackburn, has taken into partnership his son, Charles Albert, who recently passed the Major examination, and the business is now carried on under the style of C. A. Critchley & Co., pharmaceutical chemists, wholesale and retail druggists. This, however, does not apply to the "Starch Gloss" business, which will continue under the former title.

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[2]

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**THE PHARMACEUTICAL BLANK CHEQUE.**

NEXT Wednesday the members of the Pharmaceutical Society will be called upon to consider the amended by-laws in reference to the examinations. It is proposed to abolish the Preliminary examination by accepting in lieu of it cer-

tificates of examinations similar to those now approved by the General Medical Council. Also to increase the Minor examination-fee from 5*l.* 5*s.* to 10*l.* 10*s.* The by-law in respect to the latter is not the same as was first submitted in March, the Pharmaceutical Council having found it necessary to alter a small but important detail. We have opposed this increased fee from the outset, on the ground that it is unreasonable and unwarranted, and have brought forward facts and figures from the Society's own annual statements in support of our position. Not a single one of our facts and figures has been disproved, but with commendable iteration the Society's supporters have gone on using their arguments in spite of their hollowness and insufficiency. For the last time we reproduce these arguments.

Four-fifths of those who pass the Minor examination do nothing to support the Pharmaceutical Society, which registers them for life and looks after their interests. It is only fair, therefore, that the fee should be raised.

This was the first official utterance, by the President of the Society. We replied that the revenue from examination-fees from 1869 to 1895 was 87,000*l.* in excess of the direct expenditure; that the yearly surpluses have always paid the greater proportion of the general expenses of the Society; that investments of 25,000*l.* have been made from examination surpluses; and that the subscriptions of the members of the Society come far short of the expense incurred on their behalf—the examination-fees meeting the deficit. During the two months which have elapsed no one has made the slightest attempt to controvert our reply, the truth of which can be proved or disproved by the Society's accounts. We hold it proved.

If chemists valued their calling cheaply, they themselves would be valued cheaply.

This was Mr. Carteighe's view, expressed in seconding the motion for the reading of the first amended by-laws. It has been elaborated by many, including lately the President of the Society and Mr. Eberlin, and is at present a popular argument. It is a pure sentiment, emanating from West-end minds. It does not insure a better race of chemists and druggists, does not improve the public service, but appeals only to the purse-pride of those who follow pharmacy. It does not, of course, attempt to justify the Pharmaceutical Society's right to enrich itself at the expense of a sentimental theory.

The increased fee needed for the sinews of war.

An argument used by the Treasurer of the Society. Understanding him to mean law, we showed that the expenditure on this for 1869-95 was 7,507*l.*, an annual average of about 280*l.*, and as the Society's demand may realise 4,000*l.* or 5,000*l.* a year, the claim is unreasonable.

The examinations do not pay.

Mr. Martindale's argument, ignominiously dropped when we showed what a profitable business it had been for the Society.

A permanent defence fund, for the protection of pharmaceutical interests generally, is an additional desideratum.

An opinion of the Society's *Journal*, which at the same time repeated the President's first argument. It did not catch on. The 87,000*l.* surplus from examinations—half of which, at least, might have to-day been standing in remunerative securities—is evidence enough that the examination revenue provides ample defence for those on the register, and there is not the slightest indication, but the reverse, that the examinations without increasing the fee will continue to yield the Society a surplus revenue of

6,000*l.* a year. Should the revenue decrease, it will be on account of less work to be done.

The increased fee will keep back those who are not properly prepared for the examination.

This has been a very common argument, but it does not prove the Society's right to the thousands a year, while it is distinctly unjust to those who go up well prepared.

The proposals have been framed in the best interests of the whole body, and not of those connected with the Society only.

So far as the Preliminary examination is concerned, "Yes"; as to the money matter, "No." The money is needed because the Council is now spending over 9,000*l.* a year on "those connected with the Society only," compared with 4,600*l.* in 1881, while the revenue "from those connected, &c." has remained stationary. This reply has been ignored, and the reason is obvious.

A sum of 10*l.* 10*s.* cannot be regarded as at all excessive for examination and registration.

Thus Mr. William L. Currie, who had the privilege of getting the same thing in 1880 for 3*l.* 3*s.*; Mr. Storror and others say the same. We take a higher level than they, for we consider that examination and registration are in their essence things beyond pecuniary value. The basis for the fees is the expense and work involved; this is universal, unless with a few antiquated bodies. It is a sound economic basis, one which the fathers of the Pharmaceutical Society approved, and they lived to demonstrate its soundness by leaving the Society in 1882 a legacy of 30,000*l.* in hard cash. Then one came into power who embarked on a scheme of expenditure which, he was warned, would embarrass the Society financially. Events proved the truth of the warning, and an increase in the examination-fee five years ago was needed to make both ends meet. Again printers' ink and paper took the place of bricks and mortar, and the Society finds itself once more embarrassed. So the basis of examination and registration charges has been shifted from that which is economic and true to that which is extravagant and fallacious—to wit, the Council's ability to spend money.

We can find no more arguments in support of the ten-guinea fee. With altered phraseology and occasionally a dash of invective, the foregoing embody the reasons, officially and unofficially, advanced. While they may serve to satisfy the minds of the members of the Society who propose to vote this sum of money to themselves, we think that no disinterested person can see any grounds for the exaction as a public and trade necessity.

### JUDGE WADDY AND THE APOTHECARIES ACT.

WE are glad to observe that Mr. Waddy, Q.C., the Sheffield County Court Judge, has profited by the little lecture we found it necessary to give him some six months ago. It became Mr. Waddy's duty to try an action brought by the Pharmaceutical Society against certain grocers who had "inadvertently," as they said, sold some chlorodyne. He gave judgment against the defendants, he said, "with sorrow and regret." He then made the Society apply a second time for the costs, and ultimately gave as little as he could, and only gave so much, he explained, because he felt himself compelled by the Statute. We pointed out at the time that Mr. Waddy was practically taking upon himself to repeal the Pharmacy Act, as far as Sheffield was concerned, by the process of making suits under it so costly there that the Pharmaceutical Society would not care to submit a case to Judge Waddy. In the recent action brought by the Apothecaries' Society against Mr. Ellinor, of Sheffield, our learned friend

went out of his way more than once to declare his tender affection for such Acts. "There are some people," he said, "who regard these Acts with respect to medicine and dentists and chemists with a certain degree of resentment. I think these Acts are amongst the most useful we have on the Statute-book. They legitimately and properly, amongst uneducated and unscrupulous men, prevent them from playing with the health and life and happiness of her Majesty's lieges. Any Act which does that is a most beneficial and salutary Act, and one that I will do all I can to support." He spoke to the same effect again the next day, in giving judgment for the Apothecaries' Society. Mr. Waddy is, if anything, a little too thorough in his repentance. He seems to regard the Apothecaries Act as the sublimest expression of legislative views in regard to medical practice. As a matter of fact, it is an anomaly in medical legislation. The law in regard to medicine, as expressed in all our modern statutes, is that anybody may advise, anybody may prescribe, anybody may perform a surgical operation. The Apothecaries Act is a survival of a different order of ideas. Two unqualified persons may at any time evade it, one doing the diagnosing and prescribing, and the other doing the dispensing. Very noteworthy in the case referred to was the speech of the Counsel for the Society. His statement, which we assume to express the opinion of those who instructed him, was not at all that of Baron Bramwell in a once noted case, that if a chemist gave a person a draught for a headache he was infringing the Apothecaries Act. Mr. Alexander (who appeared for the Apothecaries' Society at Sheffield) said: It was not enough to show that such practices as Mr. Ellinor's had been done on one occasion. "Every chemist was occasionally asked to prescribe medicines in simple diseases, and of such action the Apothecaries' Society would take no notice." It was the habitual practice that they claimed the right to suppress. This is an announcement which should be satisfactory to chemists who only want to carry on their business in a legitimate manner.

### QUININE PROSPECTS.

THE result of last week's public sales of cinchona-bark at Amsterdam fell considerably short of the expectations of most bark-holders. They all professed to anticipate a further heavy advance in the unit-price, and they were greatly disappointed with the actually realised average increase of 5 per cent. And as many of the importers were not disposed to accept so moderate an increase on the previous market-rates, nearly two-fifths of the supply, representing some 625,000 oz. of sulphate of quinine, were bought in or withdrawn from the auctions.

The result of the sale shows the powerful influence of the combined quinine-manufacturers upon the market. The position of cinchona-bark, so far as it can be judged by figures, is a strong one. The exports of bark from Java during the first four months of the year, as given on page 742 of our issue of May 8, show a decline of about 20 per cent. compared with those of the same periods of the four preceding years. The supply of cinchona-bark at Amsterdam is smaller than it has been for years, and that in London is constantly shrinking in bulk, and still more so in value. Moreover, the stock of quinine in the London warehouses, which used to be such a bugbear to the dealers in cinchona and quinine, has fallen to comparatively small proportions. On May 1, 1894, it was still 197,862 lb.; a twelvemonth later it was 152,416 lb., and on May 1, 1896 and 1897, it was returned at 113,577 lb. and 84,331 lb. respectively. From the beginning to April 30 of the present year the quinine imports into the warehouses have been 11,160 lb., the deliveries, 14,783 lb.

And while the supplies of quinine and quinine-material are thus diminishing in every direction, there is good evidence that the consumption of the alkaloid is again increasing. A few years ago it was feared that the competition of the new synthetic antipyretics would permanently cripple the demand for quinine, but some of the coal-tar remedies have shown themselves untrustworthy, others afflicted with disagreeable after-effects, and quinine now appears to have but little to fear from their competition.

All the elementary factors of a rising market are therefore in existence, but it does not suit the quinine-manufacturers, at this moment, to let the price of cinchona-bark go any higher than it is. The manufacturers are strong because they act in unison, while the planters and bark-consignees are weak, and fight each for his own hand. But not quite so weak as they were. When, a year ago, the leading quinine-makers tacitly agreed not to buy at an auction, except at reduced prices, the importers were at their mercy, and accepted any offer made them rather than let their bark go unsold. Now they show a much better fighting spirit. Last Thursday their firmness was justified, for after the auctions some of the quinine-makers who would not bid at the sales tried to obtain several lots by private treaty. In no case, however, do they seem to have been successful, for there is a general belief that a higher unit is unavoidable, and must ere long be paid.

If the quinine-manufacturers should be forced to pay more money for their raw material, they may try to recoup themselves by an advance in quinine. But two circumstances stand in their way. In the first place, a goodly proportion of the quinine which was sold so cheaply during the short panic a few months ago must have found its way into the hands of speculators, who would harass the manufacturers by underselling them as soon as an advance in price set the market going; and, secondly, there are a good many independent manufacturers with whose competition the combined makers must reckon. We shall probably soon have Java quinine in Europe. On this subject there is an interesting passage in the annual report of the Agricultural Society of Soekaboemi, in Java, which has just been issued. With regard to cinchona, it is pointed out that, so far back as 1885, the Society decided to make experiments in the extraction of cinchona-alkaloids in Java. At that time, however, the intention did not go beyond the extraction of the alkaloids in a crude manner from the bark, the object being simply to save shipping expenses. At present, the report says, there are two well-equipped quinine factories at work in Java, of which one proposes to manufacture quinine only from the bark of the cinchona-plantations to which it is attached, while the other works entirely independently. The Government have undertaken to admit all materials required by the factories free of Customs duty. The Society points out how desirable it is for the owners of cinchona-plantations to send their bark to the Java factories instead of continuing to ship it to Europe in the quantities at present exported.

No doubt we shall hear more of these two factories soon. Altogether it looks as though an interesting time were in store for quinine and for cinchona-bark.

### MANUFACTURER AND RETAILER.

"My little hero, this is glorious sport," said the Giant to the Dwarf in Goldsmith's famous story, when the latter had lost a leg, an arm, and an eye, while the Giant was without a single wound. "Let us get one victory more, and then we shall have honour for ever." "No," cries the Dwarf, who was by this time grown wiser; "no, I declare off; I'll fight

no more, for I find in every battle that you get all the honour and rewards, but all the blows fall upon me."

The Surrey chemists who have had to fight the arsenical-soap cases have felt something like this lately, and so have retail dealers all over the country when they have had to do battle on behalf of the manufacturers of special goods under the Sale of Food and Drugs Act. It is true that in a great many cases the manufacturer or the wholesale dealer has backed the unfortunate retail vendor when he has been attacked. It is fair to say that this has generally—indeed, almost invariably—been the case when the articles questioned have been clearly those for which the makers were responsible. But even then the Dwarf has had to bear the brunt of the attack. If the money has been found for him it is his reputation which has been affected, a matter which may easily be of far greater importance.

In the action brought by Mr. Higgs, of Kingston-on-Thames, against Messrs. Yardley & Co. (Limited), the manufacturers have been taught a salutary lesson. They wanted to get the benefit of statements which their managing-director had to admit were not quite in accordance with Biblical truth, and they wanted the retail vendor to suffer all the discredit and pay the fines incurred by selling their soap with the mythical title. Mr. Higgs deserves the thanks of the trade for his gallant maintenance of the rights of the retailer. It appears, by the result of his action, that the manufacturer cannot entirely decide for himself whether he will or will not take upon himself the duty of defending his article. His support of the retailer is not entirely an act of grace on his part. If he supply an article which does not correspond with his description of it, or which is deficient in a merchantable respect, it appears, from Judge Lushington's decision, he renders himself liable to the pecuniary consequences, and to intellectual and moral damages as well—an idea for which the retailer should be grateful to Uncle Paul Kruger.

The unfair comparative immunity of the wholesale-dealer and the manufacturer has long been a grievance in the administration of the Sale of Food and Drugs Act. It was admitted by the Select Committee of the House of Commons who considered the working of the Act, and they proposed a somewhat unwieldy remedy, which has been inserted in Mr. Kearley's amending Bill, but which is hardly likely to be adopted. Nor has the warranty remedy proved a very effective protection to the retail trade. Perhaps an occasional action under the Sale of Goods Act (which will be found in full in our 1894 DIARY), and the recognition by judges in suitable cases of "intellectual and moral damages," may assist to persuade the Giant that the Dwarf's legs, arms, and eyes are of some importance to him.

#### AERATED-WATER PROFITS.

A curious calculation may be made on the basis of the figures given in the recently issued prospectus of Schweppe's (Limited). It appears from that that the total sales during the past three years of Schweppe's aerated waters was 61,378,440 bottles, and that the profits in those three years amounted to 156,939%. From this it appears that the firm made 1*l.* profit on every 391 bottles sold, say three-fifths of a penny on each bottle sold. Is this above or below the standard for high-class waters?

#### PHARMACEUTICAL COUNCIL ELECTION.

The post-cards which have been sent in by our subscribers and their employés during the past three weeks show that Mr. Martindale is the favourite in the running. He is first, and far ahead of Mr. Carteighe, who is the only one at all in the running for the second place. Mr. Hyslop has

the distinction of occupying the other end of the field, that is the sixteenth position, and Messrs Campkin and Warren have a neck-and-neck race for the fourteenth place. Our vote is not decisive as to which of them will get in, but a large proportion of the voters put Mr. Campkin amongst the first half-dozen, and few who vote for Mr. Warren are so sanguine as to place him as high as that. It looks at present, therefore, as if Mr. Campkin were to get Mr. Gostling's place on the Council, and that all the old horses will find a place.

#### SOCIETY OF CHEMICAL INDUSTRY.

We announced last week that Professor Clowes, of Nottingham, has been nominated President of this Society in succession to Dr. E. Schunck, whose term of office terminates after the Manchester meeting, to be held on July 14, 15, and 16. Mr. A. Gordon Salamon (London), Dr. Wm. Jay Schieffelin (New York), Mr. David Howard (London), Mr. Ivan Levinstein (Manchester), and Mr. Wm. Thorp (London), have been nominated Vice-Presidents. It is expected that the 1898 meeting of the Society will be held in Nottingham.

#### THE VETS. AGAIN.

The Royal College of Veterinary Surgeons have refused to examine a woman who has taken out all the classes at the new Veterinary College, Edinburgh. The only ground which they advance is that it is contrary to use and wont to grant the veterinary qualification to women! For the benefit of those who do not know, we may state that the Royal College's headquarters are not in Berlin or Peking, but in Red Lion Square, London, W.C., and they are the same body who thought no chemist could call himself veterinary chemist until the High Court convinced them to the contrary.

#### THE CHEMICAL RECOUNT.

There was not the slightest comment upon the result of the recount of the votes for the election of officers and Council of the Chemical Society when Professor Dewar announced them last week. The recount gives Professor Dewar a larger majority than had been published, but no notice was taken of the doubtful papers which were the subject of dispute. Professor Dewar's conduct in the chair is so good that many of his opponents would have regretted had the recount unseated him. The expressed object of Professor Ramsay's supporters was to bring about a reform of the by-laws, under which the Council selects the persons who are to fill the various offices. The object is commendable, because a democratic selection, or the opportunity to make it, would be good for the Society. The Pharmaceutical Society is the best model that we know of—viz., an election of Council by the members, and election of officers by the Council from amongst themselves. If the reformers would now drop the personal element and address themselves to the real question at issue, they would be likely to win a wider measure of support. Perhaps the Council itself may take the initiative.

#### ANALYSTS AND DRUGGISTS' PREPARATIONS.

The results of several actions reported this week under the Sale of Food and Drugs Act are of interest. In two courts the Somerset House chemists have been called to give evidence in support of their certificates, which, in both instances, happen to have been in favour of the tradesmen, and in contradiction to the opinions certified by the public analysts. In both cases the evidence tends to show how carefully these control analyses are performed at Somerset House. The North London milk case is very remarkable. Here are four public analysts of good repute passing a bottle of milk round from one to the other, and all asserting that the milk has been watered. The Somerset House chemists find the milk to be of a very fair quality, which might quite easily have been unadulterated. In the lime-cream and glycerine case

at Brentford, the evidence of the Somerset House chemists was even more conclusive than in the milk case. The question at issue was the presence or absence of glycerine. They found it there. In this, they corroborated the testimony of the defendant himself, and of Mr. Conroy, who had also found it. The defendant's case was as perfectly established as evidence could establish it, and yet the Bench coolly refused the chemist his costs. The injustice of this decision is the more apparent when it is remembered that the chairman of the Magistrates, and we believe another magistrate, were members of the Middlesex County Council, who were virtually the prosecutors! The decision in the High Court on the arsenical-soap case maintains the decision of the Richmond Magistrates that arsenical soap containing no arsenic is not a drug, and therefore does not come under the Sale of Food and Drugs Act. The action in such a case should have been brought under the Merchandise Marks Act, the offence being a false trade description.

#### GROCERS AND THE P.A.T.A.

The Grocers' Federation held their quarterly committee meeting in London last week, and, among a multitude of other topics, discussed the P.A.T.A. scheme. The discussion ran principally on questions of procedure and etiquette, and it all arose out of Mr. Glyn-Jones's unpardonable misdemeanour in sending copies of Sir Edward Clarke's opinion to members of the general committee direct instead of through the "official channels." Mr. Jones's temerity in approaching these Mikados of the grocery trade through the ordinary penny-post was to some extent overlooked this time on account of his youth and innocence, but it must not occur again. Whether the document ever did get to the sacred Federation itself we are not quite sure. That body is so riddled with committees and sub-committees that it is difficult to follow the admirable report of its proceedings given in the *Grocer*, but what appears certain is that it never got before the particular sub-committee appointed to receive it. Some other sub-committee, however, came to the conclusion that there was something informal somewhere, and felt that they could not accord their august approval to Sir Edward Clarke's opinion. Ultimately, however, a motion by Mr. Williams, of Didsbury, who is on the executive of the P.A.T.A., was framed, thanking the P.A.T.A. for getting Sir Edward Clarke's opinion, expressing their agreement with it, and inviting Mr. Glyn-Jones to address the Conference of Grocers' Associations to be held at Liverpool in July. We are not quite sure whether any part of the motion was carried—we think not; but in any case the end of it was modified so as to require Mr. Jones to ask for an invitation to the Conference before one is sent to him.

### Westminster Wisdom.

#### THE MERCHANDISE MARKS ACT.

At the sitting of the Select Committee of the House of Commons appointed to inquire into the working of the Merchandise Marks Act on Monday, Mr. Zimmerman, chemical agent, of 6 and 7 Cross Lane, St. Mary-at-Hill, gave evidence. He said he was agent for several chemical firms, and had carried on the business since 1864. Prior to the passing of the Merchandise Marks Act, the Customs authorities seemed to have full powers to interfere with any goods coming in spuriously marked, and several cases had occurred in connection with his business in which goods so marked had been stopped. In the home trade there was not much to complain of in the Act, but in the transit trade there was. Fine chemicals were generally manufactured in Germany, and by the operation of the Act colonial buyers had been educated into sending their orders direct, instead of sending them to London as before.

Mr. Mundella: You mean to say that the marking of the goods with an indication of their place of origin has shown the colonial buyer where he can buy these goods first-hand and save the English profit?—I would not say profit, as London houses work for very small commissions.

And that, as a result, the German establishes his agents in the colonies and in India, and he not only obtains orders for these goods which he used to get through English agents, but for any other goods which the English can manufacture even better than the German?—Yes. Some of the German manufacturers offer goods in India at the same price as the English manufacturer sells here on the spot.

#### THE TEA-DUTY.

The principal feature of the discussion on the Budget resolutions has been an attempt on the part of Mr. A. O'Connor, backed up by most of the Radical members and by one or two Conservatives, to get the tea-duty reduced from 4*d.* to 2*d.* The Chancellor of the Exchequer resisted the proposal, however, mainly on the ground that he could not afford to part with the money, and that it was contrary to public policy to so far relieve large classes of the people from indirect taxation as to deprive them of the motive for interest in national economy.

#### EMPLOYERS' LIABILITY.

The Home Secretary expects to be able to take the second reading of the Workmen (Compensation for Accidents) Bill on Monday next. The Bill is exciting much attention, and though it is almost sure to find its way to the Statute-book, it is likely to be subject to much independent criticism even on the Government side.

#### THE FLASH-POINT OF PETROLEUM.

Mr. William Thomson, consulting chemist, of Manchester, has given evidence to the Petroleum Committee, in which he reported a number of experiments made by him at the instance of the Manchester Sanitary Association with regard to lamp-accidents. These had led him to the conclusion that the flash-point of oil should be raised from 73°, Abel test, to 100° or 103°. He did not think the raising of the flash-point would increase the cost 10 per cent.

#### MIDWIVES' REGISTRATION.

Mr. Hazell is anxious to hasten the pace of the Midwives Registration Bill. He intends to ask Mr. Balfour a question referring him to the unanimous recommendations of the Select Committee of the House of Commons on the subject, and suggesting, in view of the large amount of mortality and widespread suffering both of mothers and of infants which the Committee report, the Government will give time this session for the discussion of the Bill, or, if this be not possible, whether they will make it a Government measure next session.

#### THE INLAND REVENUE AND CORDIALS.

Mr. Pickersgill has questioned the Chancellor of the Exchequer as to the recent Revenue prosecution in Marylebone, "when it was proved that the cordials had been manufactured for years with the knowledge of the Revenue officers, and the Magistrate, in dismissing the summons with costs, observed that in the circumstances the defendant should have been warned before proceedings were taken." Mr. Pickersgill asked whether in many other instances the Revenue authorities had not acted in the same way, and whether they should not be advised to be more careful in future. Sir M. Hicks-Beach said that until evidence was given the officials were not aware that the trade had been carried on for years. Care would be taken to prevent a repetition of what was complained of.

#### A GOOD SPEECH.

Sir James Haslett's speech in Wednesday's debate on the Irish Sunday-closing Bill was certainly one of the best and freshest delivered during the present Session, says "G. A. B. D." in the *Daily Mail*. Sir James is a Belfast druggist on a large scale, has carved out his own way to wealth and influence, and come to represent one of the divisions of the city in which, to use his own words, he was once a hard-worked drudge. A perfervid preacher of temperance, he is

yet brimming over with humour, and has none of the narrow fanaticism that often stamps those who voice his cause. It is some time since a speech from an obscure private member who rarely intrudes in the debates has received such a flattering attention or won more hearty applause than did his on Wednesday.

## Bankruptcy Report.

*Re* GEORGE HANDEL OPENSHAW, formerly carrying on business of a Chemist and Druggist, in co-partnership under the style of Booth & Openshaw, Darwen Street, Blackburn.

THIS debtor reappeared for his adjourned examination at the Blackburn Bankruptcy Court on May 12. The bankrupt had prepared an account, but Mr. Carter, who appeared for the trustee, said there were one or two items which were not satisfactory. One was "Interest paid on private loans, 167*l*. 7*s*. 6*d*." The account did not give the particulars of the loans. The trustee, in reply to the Official Receiver, said he did not expect to receive any of the 1,450*l*. for the fully-secured creditors. The deficiency would therefore be increased to 5,580*l*. The Official Receiver said there was a sum of 2,450*l*. owing to the bankrupt's late partner, who was secured by mortgages on property estimated by the debtor at 3,250*l*. There was no information given as to when the debt was contracted, or when the mortgage was given. Mr. Broadbent, for the debtor, submitted that his client had done all that could be reasonably expected of him in the account. He was asked to supply an account showing the cash received by him from all sources from July, 1894, up to the time he left England, how the cash had been paid away, and to whom. He had accounted for all the money that it was possible to account for, and he therefore asked that the examination should be closed. Mr. Carter objected. He said there was a large deficiency which was absolutely unaccounted for by any proper account. The debtor had had the impudence to pledge the credit of the firm for his own private purposes. [The Debtor: I deny that.] I say it is a fact you pledged Mr. Booth's credit as a partner of the firm when you had no authority to do so. The Official Receiver said the debtor had received or lost 400*l*. a year for the last ten years out of the firm. This had not prevented him converting to his own use certain trust moneys. The examination was adjourned, and the debtor ordered to prepare the account asked for.

## Gazette.

### PARTNERSHIPS DISSOLVED.

Hulme, J., and Hulme, F. A., soap and essence manufacturers, Stockport, under the style of John Hulme & Co.

Sherwood, C., and Fieldsend, J. F., manufacturers and dealers in brushes, combs, and perfumes, Cotton Street, Australian Avenue, E.C., under the style of Charles Grant & Co.

### THE BANKRUPTCY ACTS, 1883 AND 1890.

#### ADJUDICATIONS.

Hare, Arthur Frederick, Wolverhampton, late Bleunheim Gardens, Willesden Green, N.W., dentist's assistant.

Steel, George, South Shields, mineral-water manufacturer.

Salmon, Thomas, Corwen, Merionethshire, chemist.

THE PETROLEUM ACT.—At the Nottingham Police Court on May 11, Ambrose Middleton, chemist, of Lister Gate, Nottingham, was summoned for having kept petroleum on his premises in Lister Gate, without a licence, on April 9. Inspector Holroyd said that on that day several pints of benzoline and two pints of naphtha were found on the defendant's premises. The defendant's solicitor said the petroleum should have been sent to his other place of business, but, through oversight, his instructions had not been carried out. Defendant was fined 10*s*. in each case. The petroleum was ordered to be forfeited.

## Personalities.

MR. JOHN HARRISON, chemist and druggist, Sunderland, has been elected an alderman of that borough.

PROFESSORS WYNDHAM R. DUNSTAN, M.A., F.R.S., and Wm. Ramsay, Ph.D., F.R.S., have been appointed examiners in chemistry to the University of London.

MR. C. F. G. MEYER, of the Meyer Brothers Drug Company, St. Louis, U.S., is to spend the summer in Europe. His fixed address while he is on this side will be c/o of A. Block Ness, Hamburg.

MR. EDWARD PARRY, a Welshman, was one of those who graduated at the Philadelphia College of Pharmacy last month. "Powdered Extract of Liquorice" was the subject of his thesis.

MR. G. F. SNOW, formerly with Messrs. Savory & Moore, is now representing Mr. B. Kühn, 36 St. Mary-at-Hill, for the sale of his special preparations, and those lately introduced—viz., chinosol, colchi-sal capsules, tannalbin, anti-diphtheritic serum, &c.

WE had a call the other day from Dr. E. Schweitzer, the Secretary of the New York section of the Society of Chemical Industry, who has come over to Europe for a short time. Dr. Schweitzer informs us that the Society is making good headway in the States.

THE loving-cup presented by the American Society in London to the Hon. T. F. Bayard, first Ambassador of the United States to the Court of St. James's, previous to his departure, has an interest for us, owing to the fact that it was designed by a pharmacist—Mr. Henry S. Wellcome. The cup, wrought in solid gold, consists of a representation of the giant pumpkin (weighing 175 lbs.) which was presented to Mr. Bayard by the United Service Club of New York, and which was on the table at the Society's dinner last Thanksgiving Day. The lid of the cup is surmounted by a portrait



bust of Mr. Bayard, modelled from life by Miss Effie Stillman, and on either side stand figures of Columbia and Britannia clasping hands, and bearing palm-branches. This group, also the base, is of sterling silver. The latter bears a bold relief map of the United States of America, upon which, at the North, South, East, and West, four American eagles with wings outstretched support on their backs the golden cup. The total height of the cup is 19½ inches. It was presented to Mr. Bayard at a farewell banquet given in the Hotel Cecil on Friday evening, May 7, at which the

following gentlemen connected with the drug-trade were present:—Mr. J. W. Drysdale, Mr. James Horlick, Mr. H. F. Johnson, Dr. F. B. Power, Mr. J. Morgan Richards (a vice-chairman), Mr. R. C. Sudlow, Mr. Frederick C. Van Duzer (a vice-chairman), Mr. C. Conning Weld, Mr. J. A. Wink.

MR. THOMAS S. HARRISON, who has just been appointed Consul-General of the United States at Cairo, is the junior member of the firm of Harrison Brothers & Co., paint manufacturers, of Philadelphia. For some years he has been President of the Manufacturing Chemists' Association of the United States, comprising over 1,300 establishments, and controlling \$150,000,000 of capital. Mr. Harrison has visited Egypt twice, and is personally acquainted with the Khedive.

WE understand that Dr. Donald Harvey Attfield, D.P.H., Camb., who has been engaged for three years as a medical officer under the Egyptian Government, principally on sanitary and quarantine duty at Suez, and in the sanitary control of the Mecca pilgrim camps at El Tor and Ras Mallap, is now on his way home to England. Dr. D. H. Attfield has left the Egyptian service, and intends to devote himself to hygienic chemistry, bacteriology, and public health matters generally, in or next to his father's laboratories at Temple Chambers, London.

MR. G. CLARIDGE DRUCE, pharmaceutical chemist, and sheriff of Oxford, seems to be a *persona grata* among the undergraduates of the University of Oxford. The *Isis*, which is their journal, congratulates Mr. Druce on the public spirit which has induced him to present to the corporation the massive gold chain and badge which we mentioned last week. Mr. Druce's honorary M.A., and his Curatorship of the Fielding Herbarium give testimony (says *Isis*) to the estimation in which he is held by the University; while his election to the Sheriff's chair affords equally emphatic evidence of the esteem of his fellow citizens.

## Trade Notes.

THE English Diastasic Malt Company have taken offices and stores at 5 New London Street, E.C., which will be connected with their works at Mistley by telephone.

MESSRS. BRYCE & Co., of 23 St. Mary Axe, have been appointed sole agents for the United Kingdom and all parts of the British Empire for Roisdorf Natural Mineral Water.

AN EASTON PALATINOID.—Messrs. Oppenheimer, Son & Co. (Limited), 14 Worship Street, E.C., send us a sample of a new palatinoid containing the active ingredients of  $\frac{1}{2}$  dr. of Easton's syrup. This is a very good way of giving the tonic; the ferrous phosphate is pale green in colour showing that it has been enclosed in the "jujube" fresh, and once there it cannot change.

KUBE-YU ATTRACTIONS.—Bridgewater's (Limited), of West Bromwich, have now added a bonus to 6-dozen lots of their speciality—viz., a silver watch, or, instead of that or the clock, which they give with gross lots, they offer a nigger with a white hat, in the centre of which is a clock. He smiles and wags his head, so the result when he is put in the window may be imagined.

ON May 15 Messrs. G. B. Kent & Sons, the brushmakers, will remove their warehouse and showrooms from 11 Great Marlborough Street, W., to 75 Farringdon Road, E.C., where they have bought the freehold of a six-floor building, occupying an area of over 4,000 square feet. The firm's new show-room, it is said, will be the finest in the brush-trade, and the building is fitted with electric light, telephones, hydraulic lift, and various other modern appurtenances. The Messrs. Kent have been at Great Marlborough Street eighty-nine years, but their business has outgrown the building.

THE DRUG-STORE CAT.—At the last Boston, U.S.A., cat show a special prize was offered for the prettiest cat exhibited by a pharmacist. The cat, in many New England drug-stores, is as conventional a fixture as the coloured-glass carboys or the dispensing-scales.

## Pharmaceutical Society of Great Britain.

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of candidates who were successful at the first examination held on April 13 last:—

Alexander, J. H., Helensburgh  
Allau, Edwin, Aberdeen  
Anderson, David R., Dunblane  
Baker, Alfred R., Leicester  
Bartle, George, Northallerton  
Baverstock, Willie E., Lincoln  
Bellamy, Clement J. V., Caistor  
Benham, William J., Braintree  
Blamey, Francis W., Truro  
Bonner, Alexander, Mintlaw  
Brown, Arnold F.-J., Hawick  
Bruce, John, Ladybank  
Buchan, Jos. D., Fraserburgh  
Bull, William John, Bedford  
Burnett, James, Methil  
Burns, Wilfrid H., Birmingham  
Burr, Josiah R., Harpenden  
Burton, F. J., Thornaby-on-Tees  
Butlin, James F., Liverpool  
Caines, Charles M., Maida Vale  
Carter, Arthur, Tamworth  
Chaple, P. W., Waltham Cross  
Chrystall, C. G. W., Buekhurst Hill  
Clee, Arthur R., Uttoxeter  
Clough, Alfred H., Ventnor  
Cole, George H., Hough Green  
Common, William H., Aberdeen  
Connan, John W., Stockport  
Cooper, Thomas, Hanley  
Coutts, John, Glasgow  
Craig, Charles H., Edinburgh  
Cran, William S., Peterhead  
Cresswell, H. S., Stoke-on-Trent  
Critchison, J. B., Scarborough  
Cuthbert, William S., Glasgow  
Darby, Leslie G., Watford  
Davies, Dan, Herne Hill  
Davies, David, Pontypriid  
Davies, John, Llandovery  
Davison, Henry G., Newcastle-on-Tyne  
Dennis, William, Siloth  
Derry, Alfred, Wadebridge  
Devue, James, Glasgow  
Dewar, James R., Perth  
Doig, John Allan, St. Andrews  
Durno, Duneas M., Aberdeen  
Edwards, J., Blaenau Festiniog  
Evans, William O., Ammanford  
Fairbairn, James, Redear  
Faulkner, S. H., King's Lynn  
Fiddes, Thomas M., Aberdeen  
Findlay, Robert M., Kilmarnock  
Fisk, William J., Southampton  
Fowle, James F., Long Sutton  
Fresson, Dora J. M., Stevenage  
Fry, Albert, Taunton  
Furness, H., Clayton-le-Moors  
Gale, Percy, High Wycombe  
Galloway, T. McL., Kirkealdy  
Golightly, A. G., Hartlepool  
Grant, George, Leven  
Grant, William A., Ballater  
Grasby, Richard, Hull  
Graver, Herbert H., Alford  
Green, John Percy, Stockport  
Greenhill, J. J. G., Maidstone  
Greensmith, C. C., Nottingham  
Griffin, F. J., Chipping Norton  
Griffiths, Harry J., Cirencester  
Griffiths, Horace, Newport  
Hardie, Douglas, Aberdeen  
Hardie, Robert Mills, Dundee  
Harger, Clement, Halifax  
Harratt, William A., Grantham  
Harrod, Charles E., Liverpool  
Heath, Walter V., Ripley  
Heatou, John, Burnley  
Hey, Herbert, York  
Hill, Arthur C., Ellesmere  
Hill, George G., Rothsay  
Hinch, Albert R., Leicester  
Hind, Ethel Mary, Rhyl  
Hipperson, C. W. W., Norwich  
Holmes, A. E., Melton Mowbray  
Howson, W. T., Nottingham  
Imman, George, Manchester  
Jaek, Alexander B., Dingwall  
Jackson, C. H., Sunderland  
Jausch, E., Newcastle-on-Tyne  
Jarvie, George, Kirkintilloch  
Jeffrey, Alexander Hill, Govan  
Keats, Frank H., Plymouth  
Keddie, W. D., St. Andrews  
Kemp, George M., Edinburgh  
Kennedy, George, Seacombe  
Kirby, Robert H., Whitby  
Kirkland, Arthur, Nottingham  
Knight, F. W., Westou-super-M.  
Laing, John Fraser, Aberdeen  
Lamont, John, Glasgow  
Langley, F. G., Penzance  
Lees, James, Dumbarton  
Leicester, Charles, Oldham  
Leslie, William, Falkirk  
Llewellyn, A. D., Ystrad Rhondda  
Lloyd, Edward G., Colwyn Bay  
Locke, Robert Grey, Ipswich  
Love, William L., Kirkealdy  
McCallum, William, Edinburgh  
Macdonald, John, Rothes  
McDonald, John Bayne, Perth  
McGillivray, A. M., Peterhead  
McIntosh, William, Glasgow  
McLean, Alex. B., Glasgow  
McNab, Leonard, Forfar  
Marris, George W., Grimsby  
Martin, Annie, Penrith  
May, Frederick B., Manchester  
Mellor, Ernest M., Uttoxeter  
Michael, George, Edinburgh  
Miles, Hubert Wm., Ramsgate  
Mitchell, James, Broxburn  
Morris, David, Oswestry  
Mosley, Wilkison, Driffild  
Muir, Stephen, Edinburgh  
Muir, Thomas H., Haddington  
Murdoch, Joseph C., Wishaw  
Neilson, Robert, Stewarton  
Nicholls, Albert A., Hackney  
Nicholson, Leonard E., Bolton  
Norweb, Arthur, Nottingham  
O'Callaghan, C. W., Warrington  
Onley, Geoffrey B., Birmingham  
Orr, George H. R., Gatehouse  
Paddock, Granville E., Liverpool  
Paley, Frederick G., Blackpool  
Palmer, John T. D., Liverpool  
Parry, Charles, Patrieroff  
Paterson, Henry A., Arbroath  
Patten, Alex. D. F., Alnwick  
Patterson, J. W., Newcastle-on-T.  
Paulsen, John, North Shields  
Peasnell, Horace A. J., Norwood  
Perks, Hugh Earl, Leicester  
Peters, Albert, Raabon  
Pettigrew, William, Lincoln  
Phillips, Philip J., Carmarthen  
Pirie, James, Aberdeen  
Pollock, Thomas L., Penrith  
Quinn, Thomas F., Douglas  
Raffan, John, Huntly  
Ragg, H. J., Lower Edmonton  
Richards, F., Newton Abbot  
Riechalgh, Lincoln, Brighton  
Robb, William R., Aberdeen  
Robertson, Harry B., Dundee

Robertson, Robert, Eyemouth  
 Robertson, William, Kilsyth  
 Robertson, William, Glasgow  
 Rogers, Robert Isaac, Rhos  
 Ross, Edward, Wiveliscombe  
 Sharpe, John B., Margate  
 Sheldon, C. F., Birmingham  
 Sheldermine, H., Manchester  
 Sidebottom, S. H., Accrington  
 Smart, Helen, Edinburgh  
 Smith, Alexander, Macduff  
 Smith, Arthur, Mansfield  
 Smith, Edgar, Crediton  
 Smith, John B., Manchester  
 Smith, Thomas, Farnworth  
 Spouncer, S. Y., Gainsborough  
 Stanser John, Lincoln  
 Stewart, Adam Tement, Annan  
 Strachan, Robert G., Dundee  
 Suiter, John Ross, Maryport  
 Tait, James Nicoll, Dundee  
 Taylor, W. A., Liverpool  
 Teesdale, Arthur, Horncastle  
 Thomas, W. J., Llanelli  
 Thompson, T. J., Portsmouth  
 Tibbles, Edwin, Birmingham  
 Todd, Tom Hart, Ulverston

Tucker, Francis H., Burnham  
 Tucker, W. T., Kentish Town  
 Tullis, John, Dunfermline  
 Turner, George A., Belfast  
 Uttley, John Edward, Hull  
 Vaughan, Thomas W., Chester  
 Veitch, John A., Manchester  
 Ward, William J., Manchester  
 Wardle, Arthur H., Maidenhead  
 Watkins, C. W. J., Abergavenny  
 Watson, J. H., Laurencekirk  
 Webb, J. T., Stow-on-the-Wold  
 West, Robert Henry, Halifax  
 Westlake, William S., Sutton  
 Whaley, Harold, Chester  
 White, G. H. E., Portsmouth  
 Wilkinson, J. G., Harrogate  
 Will, Norman, Campbelltown  
 Williams, R. H., Lewisham  
 Williams, Robert W., Rhos  
 Williams, W. N. P., Holywell  
 Wilsden, Arthur M. A., Wooler  
 Wilson, Thomas, Moffat  
 Winter, H. S., Marmingtree  
 Yardley, Thomas E., Ruabon  
 Young, James, Glasgow

Cross Street, Bristol, when the latter relinquished his position in the firm of Ferris, Brown & Capper. In 1846 Mr. Hodder commenced business on St. Michael's Hill, Bristol; in 1853 he removed to Broad Street, Bristol, in the centre of the city. Shortly afterwards he disposed of his business on St. Michael's Hill to the late Mr. Edward Maish. In Broad Street, Mr. Hodder was the pioneer of the cash chemist or drug-store system of trading. This at the time was such a serious innovation that for some years the prices he charged for medicines occasioned the keenest criticism amongst his competitors. His system was successful, however; his business became a very large one, and he carried it on personally until in 1887 he transferred it to a limited company. He presented one-fifth of the capital—viz., 5,000*l.*, in 1*l.* shares—to the members of his staff, on the condition they should remain for seven years with the company, and during that time not dispose of their shares. At the expiration of the time the employés had the gratification of seeing their 1*l.* shares worth 2*l.* 10*s.*, and of course they had been meantime drawing good dividends. The business is now under the management of Mr. Edmund Carpenter, whose father was manager to Mr. Hodder for many years. The present directors of Hodder & Co. (Limited) are Mr. H. W. Carter (chairman), Mr. H. Reginald Wainsbrough, with Mr. E. Carpenter (managing director) and Mr. A. G. N. Trite (secretary). Mr. Hodder was also a director himself. Mr. Hodder was married three times, and leaves a widow and family.

## Marriages.

**BERNARD—COX.**—On May 5, at St. Ann's Church, London, by the Rev. Canon Lewis, John T. Bernard, L.P.S.I., Clare Street, Dublin, to Jennie Elizabeth, daughter of Mr. A. Cox, Sutton, Lincolnshire.

**DYER—KNIGHT.**—April 6, at Wiveliscombe Congregational Church, Mr. Raymond Dyer, eldest son of Mr. C. L. Dyer, of Tewkesbury, to Amy, youngest daughter of the late Mr. W. B. Knight, chemist and druggist, Wiveliscombe.

**HOLLELY—SIBRAY.**—On April 28, at Dore, by the Rev. Canon Ebsworth, vicar of East Retford, assisted by the Rev. W. R. Gibson, Vicar of Dore, T. L. Hollely, pharmaceutical chemist, Retford, to Edith, elder daughter of the late Frederick Sibray, Dore.

**LEWIS—EDWARDS.**—On April 29, at Bebington Parish Church, by the Rev. Canon Feilden, William C. Lewis, second son of N. J. Lewis, chemist and dentist, of Rock Ferry, to Elizabeth Margaret Edwards, younger daughter of Richard Edwards, of Rose Cottage, Bebington, Cheshire.

**MICHIE—WARDELL.**—On April 29, at Adelaide Road Presbyterian Church, by the Rev. R. McCheyne, Edgar D. D. James Michie, L.P.S.I., Blackrock, co. Dublin, to Sara Elizabeth, only daughter of Mr. William Wardell, Dublin.

**TOKING—DICK.**—On March 18, at St. Paul's Cathedral, Wellington, New Zealand, Mr. W. O. H. Toking (late of Camborne, Cornwall), chemist and druggist, Lambton Quay, to Miss Edith Dick, of St. Elmo, Bulcott Street, Wellington.

## Deaths.

**COLGATE.**—The death occurred at Orange, N.J., on April 23 of Mr. Samuel Colgate, the principal of Colgate & Co., perfume and soap-manufacturers, New York. Mr. Colgate was in his 74th year. He was a man universally esteemed in New York State, and for many years had taken a leading part in the Baptist denomination, to whose work he had contributed liberally. The town of Orange, in which he lived, venerated him, and his death is keenly felt there.

**HODDER.**—On May 12, at his residence Carlton House, Woodland Road, Tyndall's Park, Bristol, Mr. Henry Hodder, pharmaceutical chemist. Aged 79 years. Mr. Hodder was born on January 19, 1819. On leaving school he sailed for the Isle of France and Calcutta, returned in December, 1834, after a twenty months' voyage. He was then apprenticed to his brother, who was in business at Hotwells, Clifton. He afterwards became an assistant to Mr. Capper,

**MATTERSON.**—On May 9, at Kelvin, Bournemouth, Charlotte Matterson (*née* Atlee), wife of J. Kitching Matterson, chemist, Bournemouth and London. Aged 36.

**MAYO.**—At 1.176 Jefferson Avenue, Brooklyn, New York, on May 2, Hattie Trenkmann, the beloved wife of Caswell A. Mayo, Ph.G., editor of the *American Druggist*.

**NANTS.**—On April 25, Mr. William Nants, chemist and druggist, London. Aged 58.

**SMITH.**—On April 29, Mr. John Frederick Smith, chemist and druggist, Liverpool. Aged 70.

**TROLOPE.**—Mr. Edward Hazell Trollope, chemist and druggist, Trowbridge, whose death we announced last week, had carried on a successful business in the town for forty years. He was well known and much respected. The funeral took place on May 5, the anniversary of his birth.

**TINCTURE OF NUX VOMICA** is recommended as a stimulant or tonic for cut-flowers.

THE Medical Health Department of Canada are experimenting with "formaldehyde."

**SMELLING NICE ON SUNDAY.**—At North London Police Court on Thursday, before Mr. Bros, Leonard Tyler, 13 years of age, errand-boy in the employ of Mr. Talintyre, chemist and druggist, 144 Stroud Green Road, was charged with stealing two bottles of scent, value 3*s.*, the property of his employer; and James Tyler (a brother to Leonard), living at West Green, was charged with receiving the scent, well knowing it to have been stolen. The boys admitted the allegations, and said that they intended to make themselves smell nice on Sunday. The prosecutor did not wish to be hard on the boys, and the parents having given them good characters, the Magistrate discharged James, and took the father's bail to bring up Leonard for judgment if necessary.

**THE SACCHARIN-WAR IN GERMANY.**—Although "pooled" in Britain, the rival saccharin-makers continue to handle each other without the gloves in Germany and other countries. The most recent battle has been between Von Heyden's Chemical-works at Radebeul and Fahlberg, List & Co., of Salbke-Westerhusen. The last-named firm are the original makers, and every new-comer seems to consider it his duty to begin by having a bout with them. Some time ago Fahlberg, List & Co. brought an action against Von Heyden for infringement of Fahlberg's (German) saccharin patent No. 35,211. On June 9, 1896, the *Königliches Landesgericht* at Dresden pronounced in defendant's favour. The Fahlberg firm appealed to the Superior Court *Königliches Oberlandesgericht*, and this, in turn, on April 26 last, confirmed the judgment of the Court below and condemned the plaintiffs to pay the costs of the appeal.

## New Companies and Company News.

**LEVI, JONES & CO. (LIMITED).**—Capital 20,000*l.*, in 1*l.* shares. To take over the business carried on as "S. J. Levi & Co.," at 71 Farringdon Road, E.C., opticians, and makers of and dealers in photographic apparatus, and instruments for optical, surgical, mathematical, and scientific purposes.

**HURMAN (LIMITED).**—Capital 10,000*l.*, in 5*l.* shares, to carry on the business of manufacturers of and dealers in photographic goods, apparatus and chemicals. Frederick H. Hurman, merchant, of St. Nicholas Buildings, Newcastle-upon-Tyne, is the managing director with 250*l.* per annum.

**HENRY CLARK & SONS (LIMITED).**—Capital 8,000*l.*, in 10*l.* shares. To take over the business of an oil refiner and importer and anti-fouling paint maker, carried on at Millwall, London, under the styles of "Henry Clark & Sons" and "The Millwall Oil Company." Registered office, 49 Eastcheap, London, E.C.

**INTERNATIONAL HYGIENIC CORPORATION (LIMITED).**—Capital 15,000*l.* To acquire Charles Webb's patents and secret processes in relation to automatic and antiseptic dry closets, and the preparation of a deodorising and fertilising powder, to be used in connection therewith, and also to a deodorising fluid.

**H. HOBSON (LIMITED).**—Capital 1,000*l.*, in 5*l.* shares, to take over the business of an ink and indigo extract manufacturer carried on by Charles W. Saynor, but lately by John Jeffs and Henrietta Jeffs as "Henrietta Hobson," at 17 Manchester Road, Stockport. Registered office, Reuben Street, Stockport.

**HENWOOD & CO. (LIMITED).**—Capital 2,000*l.*, in 1*l.* shares. To take over the business of a drug-merchant, patent-medicine vendor, grocer, and general storekeeper carried on by Philip B. Henwood at Market Street and Well Lane, Liskeard, Cornwall. The said vendor is the sole managing director. Registered office, Market Street, Liskeard, Cornwall.

**ALGERNON LAWES (LIMITED).**—Capital 7,500*l.*, in 1*l.* shares. Objects: To enter into an agreement with Algernon Lawes (Limited), and Ernest C. Fawley, its liquidator, and to manufacture, sell and deal in horse and cattle drinks, and other medicinal, chemical, industrial and other preparations and compounds. Registered office, Albion Works, Trinder Road, Hornsey Rise, London, N.

**PEACOCK'S OVALINE SOAP COMPANY (LIMITED).**—Capital 6,000*l.*, in 1*l.* shares. To take over the business of manufacturers of soap and toilet-articles carried on as "Peacock's Ovaline Soap Company," at King Street, Regent Street, and at 145 Queen Victoria Street, London; to acquire Patent No. 5,621 of 1893 for "improved manufacture and production of soap"; and to enter into a certain agreement.

**A. BOAKE, ROBERTS & CO. (LIMITED).**—Capital 200,000*l.* To take over the business of chemical-manufacturers carried on under the style or firm of "A. Boake, Roberts & Co.," at Stratford, Essex. The first subscribers are:—Arthur Boake, F. G. Adair Roberts, and Edmond J. Boake, Stratford, Essex; Mrs. F. E. Boake, Crouch End, N.; C. C. Ford, Walthamstow, accountant; Arthur Kempis, Leytonstone, clerk; James W. Payne, 4 Throgmorton Avenue, E.C., clerk. The first directors are Arthur Boake, F. G. Adair Roberts, Edmond J. Boake, and Benjamin E. R. Newlands. Remuneration, 1,500*l.* per annum, divisible.

**FRAZER & GREEN (LIMITED).**—Registered at Edinburgh with capital 25,000*l.*, in 10*l.* shares, to carry on the business of chemists, druggists, importers, and manufacturers. The subscribers (who take one share each) are:—D. Frazer, 127 Buchanan Street, Glasgow, chemist; Mrs. K. Frazer, Rowmore House, Garelochhead; J. G. Frazer, Fellow Trinity College, Cambridge; J. Parker, Glasgow, chartered accountant; Miss C. M. Frazer, Rowmore House, Garelochhead; S. M. Frazer, 4 Belmont Gardens, Glasgow, chemist; J. W. Sutherland, 41 Castle Street, Dumfries, chemist. The first directors are D. Frazer, S. M. Frazer, J. E. Steggall, J. W. Sutherland, and J. Parker. Qualification, 10*l.* for above; 500*l.* for every other director.

**SCHWEPPE'S (LIMITED).**—Capital 950,000*l.* To enter into an agreement with Ernest T. Hooley for the acquisition of the business carried on by J. Schweppe & Co. (Limited), and to manufacture, import, export, and sell natural, aerated, artificial, and other waters and beverages. The first directors (to number not fewer than three nor more than nine) are:—The Earl of March, C. D. Kemp-Welch, Earl de la Warr, A. Drucker, W. W. Harris, H. H. Ley, H. J. G. Rebow, and F. W. Towle. Qualification, 500*l.* Remuneration, 300*l.* each per annum, and 500*l.* for the Chairman. Registered office, 51 Berners Street, W.

**THE QUININE BITTERS COMPANY (LIMITED).**—We are informed that the dividend paid by this company was 5 per cent., not 10 per cent., as previously stated.

**LIEBIG'S EXTRACT OF MEAT COMPANY (LIMITED).**—The directors have resolved to recommend, at the next ordinary general meeting of the company, to be held on June 1 next, a distribution of a final dividend for the year 1896 of 15 per cent., free of income tax, making, with the interim dividend of 5 per cent. paid on February 15 last, 20 per cent. for the year, against a total dividend of 17½ per cent. paid last year.

**COCKBURN & CO. (LIMITED)** taking over Cockburn's drug-stores in Glasgow, Paisley, and Greenock, has been offered for subscription in Glasgow. The assets of the company are valued at 26,608*l.* An accountant's report shows that the turnover for 1896 was 28,428*l.*, and the estimated net profit 3,553*l.* The capital is 30,000*l.* divided into 15,000 5*l.*-per-cent. cumulative preference shares of 1*l.* each, and 15,000 ordinary shares of 1*l.* each.

**KEMPTHORNE, PROSSER & CO'S DIVIDEND.**—The report and balance-sheet of Kempthorne, Prosser & Co.'s N.Z. Drug Company (Limited), which was presented at the annual meeting at Dunedin, N.Z., on March 18, shows a net profit for the year 1896 of 10,871*l.* 13*s.*, to which is added 21,169*l.* 10*s.* 10*d.* brought forward from last year. After providing for depreciation and interim dividends, there remains for division a sum of 19,764*l.*, out of which it is proposed to pay a dividend at the rate of 7 per cent. per annum, amounting to 5,158*l.*, and carry forward 14,606*l.* to next year. The retiring directors were re-elected, and Mr. F. Grimwade was elected a director in the place of the late Mr. W. Elder.

**MR. A. J. WHITE** came to England a week before Mother Seigel's syrup was offered for subscription by the public. The *American Druggist* states that "it is estimated that the profits from the syrup, since the time it was introduced into England, have amounted to over \$5,000,000. Mr. White's growing interests in this country and his advancing age have prompted him to dispose of this property, and this is the object of his present visit to England. It is expected that he will realize between \$5,000,000 and \$6,000,000 by the sale." Spite of the rumour that the capital was subscribed four times over, Mr. White will doubtless be content to take somewhat less than 1,000,000*l.* for his share in the property.

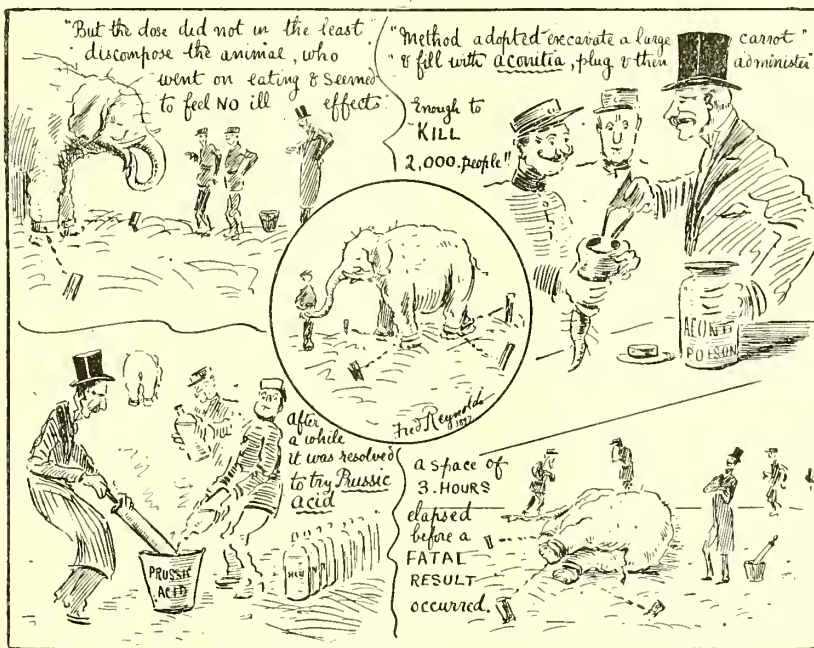
**SCHWEPPE'S (LIMITED)** (Mr. Hooley's latest enterprise) was offered to the public on Monday. Mr. Hooley asks 1,250,000*l.* for the entire concern, which, it was understood, he gave a million for two or three months ago. He takes, of course, all the expense and risk of the flotation, and his profit will probably consist of deferred shares mainly, because it is stipulated that he is to be paid as to 300,000*l.* in debentures, and as to the balance in cash or shares, or cash and shares at the option of the directors. The share-capital is to consist of 300,000*l.* in 5-per-cent. cumulative preference shares; 300,000*l.* in cumulative 7-per-cent. ordinary shares; and 350,000*l.* in deferred shares. It is stated that the sales of Schweppe's aerated waters and the profits of the business during the past three years have been: in 1894, 18,552,828 bottles, and 47,217*l.*; in 1895, 20,718,492 bottles, and 53,654*l.*; in 1896, 22,107,120 bottles, and 56,068*l.* It thus appears that if the new company should maintain the highest rate of profit quoted, and that this should be all available for dividend, there will only be 8,000*l.* for the deferred shares, or a little over 2 per cent. On anything like such a slender chance the deferred shares cannot be worth more than a third or a fourth of their nominal value, so that we find it difficult to perceive where Mr. Hooley's profit is coming from.

## Poisoning an Elephant.

A LARGE elephant escaped from Cross's Menagerie at Liverpool a few days ago, and was kept chained in an outhouse on the farm on which it was captured, at Netherton, and in charge of three keepers. Mr. Cross, thinking it not advisable to try to bring it back, for fear it might do more damage, ordered it to be killed. He was afraid to risk shooting it lest, if the first shot did not take effect, the animal might go mad or break away.

hours after the first dose. Without any plunging the animal quietly fell over on its side, and was dead in an instant. The carcass has been given to the Liverpool Medical School.

The artist who has supplied us with the annexed sketch was not on the spot, but he is gifted with a vivid imagination, for which he is not entirely responsible—we are given to understand. Our reason for saying so is not the free liberties he has taken with the presiding persons, but that he has given the defunct pachyderm a tail. This is an entirely unauthorised, unwarrantable, and artistic extravagance.



So he resolved to try poisoning. He got Mr. J. Hocken, chemist, Old Hall Street, and his son to accompany him, and taking a large bottle of prussic acid and a package of aconitine, a quantity of buns, apples, and carrots, the party set out. The carrots which were given to the elephant, it ate with relish. One with the inside scraped out, and the top left for a plug, was then filled with aconitine, and passed to the beast, who swallowed it in an instant. "There," said Mr. Hocken, "he has swallowed enough poison to settle 2,000 people." It had no effect, however, on the elephant, which went on eating as before. After anxiously waiting and watching in the drenching rain and bitter cold, it was resolved to try the prussic acid. A large brass syringe was filled with the poison; a keeper coaxed the animal to open its mouth by holding a bun high up, and the acid was then injected into the mouth. The elephant seemed to dislike this very much, and a drink of water for which it appeared to crave was given to it. Instead of swallowing the water, however, the creature just washed its mouth out like a human being and let the water run out on to the floor, and appeared as well as ever. Another syringe full of the liquid was then brought, but the elephant would allow no one to approach it, seeming to know what the syringe meant. Everyone was at his wit's end to know what to do next. After much waiting the idea was hit upon to wrap the syringe in a bag. This done, more food was thrown into the elephant's mouth, and the syringe was all ready when suddenly a cry was heard—"Father, I am done." It appeared young Mr. Hocken, who was using the syringe, was smoking a cigarette, and having his mouth partly open had inhaled some of the prussic acid, and was nearly gone. He was without the slightest delay taken to a pump, and cold water was poured on his head till it nearly took his breath away. This probably saved his life. By this time the elephant showed signs of uneasiness, leaning against the wall, lifting its feet, and so on. Another dose of poison was given to end it quickly, and the animal died about three

## Trade-Marks Applied for.

(From the "Trade Marks Journal," May 5, 1897.)

"PLUTO"; for coal-tar dyestuffs. By the Farbenfabriken vormals F. Bayer & Co., Elberfeld, Germany. 202,926.

"KRÜSCHEN"; for a medicine for human use. By E. G. Hughes, 38 Victoria Street, Manchester, operative chemist. 203,171.

Double-circle device containing the word "Crystals" in inner circle, the name of firm, "Jos. C. Gamble & Son—Chlorate—of Potash"—in outer circle, and the word "England" underneath; for chlorate of potash. 201,916. Figure of oval in outline containing monogram HB and wording "Baxter Works, St. Helens, caustic soda, &c."; for caustic soda. By the United Alkali Company (Limited), G11 Exchange Buildings, Liverpool. 201,917.

"CYMRALIS," written in parallelogram on black background, with figure of goat on either side, in shield device, containing the words "Cymry-am-byth," the whole being surmounted by three Prince of Wales's feathers; for mineral and aerated waters, natural and artificial, including ginger-beer. 198,112. The word "Cymralis" written on square black label, with figure of goat in shield device, and wording "Cymry-am-byth," surmounted with Prince of Wales's feathers in left-hand corner, and other wording; for an aerated table-water. By R. Ellis & Son, Ruthin, Denbighshire. 203,147. Essential particulars: the combination of devices and the words "Cymralis" and "Cymry-am-Byth."

Applicant's portrait and facsimile signature on fancy oblong label, with wording in French; for a toilet cream. By B. Lemaire, 3 Rue Cochin, Paris, perfumer. 203,555. Essential particulars: portrait and signature.

## Trade Reports.

42 CANNON STREET, E.C., May 13.

WE have again to report a rather quiet market, although there is a fairly steady undercurrent in trade. There have been comparatively few alterations in price. So far as fine chemicals are concerned the chief interest has centred in quinine, which is fully  $\frac{1}{2}d.$  dearer and looks like going higher yet. Glycerine has been reduced. Cream of tartar is barely steady. Citric acid dull. Tartaric acid unchanged. Antimony is firmer, sulphur slightly easier. Soda salts, especially crystals and caustic soda, in strong demand, with a firm tendency. There has been no further change in iodine or in prussiate of potash. Sal ammoniac has been reduced. Carbolic acid rather firmer, and chlorate of potash lower. Sulphate of copper is also easier. The drug-sales to-day were rather lengthy, and dragged very slowly along, chiefly on account of the large quantity of cardamoms offered. The eighteen catalogues comprised a total of 1,593 lots, of which 628 were sold during the auctions, which is not at all a bad proportion. Ipecacuanha practically maintained the increased prices privately paid. Cape aloes unchanged. Fine dragon's-blood much dearer and scarce. Fine Sumatra benzoin also brought higher prices. Cardamoms were at first from  $6d.$  to  $9d.$  lower, but partly recovered afterwards. Croton-seed more plentiful, and neglected. Peru, tolu, and copaiba balsams unchanged. Crude camphor is lower. Orange-peel plentiful and cheap. Ergot of rye quiet. Cannella alba easier. Round buchu-leaves are steady, and good cuttlefish is scarce, and realised somewhat higher rates. Gentian-root firm. In gum acacia, Soudan sorts, business has been done at rather lower rates. Orris-root is still tending downwards. Ordinary cassia oil sold cheaply at auction. Other essential oils are practically unchanged. Cod-liver oil has a slightly firmer tendency, and castor oil is somewhat firmer. Jamaica sarsaparilla in demand at an advance of  $1d.$  to  $2d.$  Beeswax, rhubarb, senna, honey, and vanilla are firmly held. Menthol, musk, myrrh, and colocynth neglected. Scammony-root is tending easier. Ordinary gamboge sold at lower rates. There is a good demand for druggists' and manufacturing opium, also for Persian opium, and high prices are not unlikely. At Tuesday's cinchona-sales prices were well maintained. In the outside markets the chief articles are tending downwards. Shellac and turmeric are lower. Tamarinds may be had at very cheap prices. Quicksilver firmly held. Pimento and Cochin ginger very dull. Jamaica ginger active at a decline of  $2s.$  to  $3s.$  per cwt. Zanzibar cloves are lower at auction, but rather firmer again privately to-day. Pepper is also somewhat steadier. Mace and nutmegs quiet. In oils we have to report an advance in linseed, a steady market in rape-seed oil, and slightly better rates for crude and refined cotton-seed oil. Coconut oil unchanged. Fine Lagos palm oil is easier, at  $20s. 6d.$  Olive oil unaltered. Turpentine dull. American at  $20s. 9d.$  on the spot. Petroleum quiet and unchanged.

Our Hamburg correspondent telegraphs on Thursday afternoon that HIGH *American peppermint oil* is firmer at  $6.75m.$  per lb. *Cod-liver oil* is quoted higher Hamburg Telegram. at  $70m.$  per barrel, and *Camphor* is in a firm position at  $2.95m.$  per kilo.

Our Bergen correspondent wires on Thursday afternoon that the Finnmarken fishing has improved. The total catch of fish in Norway amounts to 48,375,000, Bergen Telegram. against 41,521,000 at the corresponding period of last season. The output of medicinal cod-liver oil is 26,200

barrels, against 17,200 at the same time of last year. The market is firmer, best non-congealing oil being quoted at  $67s.$  per barrel, f.o.b.

ACIDS.—*Citric acid* is dull at  $12\frac{3}{4}d.$ , possibly  $12\frac{1}{2}d.$  per for English B.P. Concentrated *Lemon-juice* is still nominally  $11\frac{1}{2}d.$   $15s.$  per pipe, f.o.b. *Tartaric acid* is firmly held, but without alteration in price,  $1s. 1d.$  per lb. being asked for English B.P., and  $12\frac{3}{4}d.$  per lb. for foreign makes. *Acid carbolio*: Crystals remain scarce and prices are higher,  $39^{\circ}$  to  $40^{\circ}$  C. being held for  $8d.$  per lb., although  $7\frac{1}{2}d.$  might be accepted in some quarters. For  $34^{\circ}$  to  $35^{\circ}$  C., the quotation is  $7\frac{1}{4}d.$  to  $7\frac{3}{4}d.$  per lb. Crude carbolic acid is held at  $2s. 9d.$  per gallon for 75 per cent., and  $2s. 3d.$  for 60 per cent. *Picric acid* in crystals is quoted higher at  $1s. 2d.$  per lb. net.

ALOES.—Of *Cape aloes* 39 cases were offered and 17 sold to-day at fairly steady prices;  $21s. 6d.$  per cwt. for good bright hard, and from  $19s. 6d.$  down to  $16s.$  for good to very drossy seconds. No *East Indian aloes* was shown. Of *Curaçao*, 216 boxes were offered, of which 116 sold mostly without reserve, at  $24s.$  to  $26s.$  for fair brown livery; from  $19s.$  to  $13s. 6d.$  for ordinary to dull capey; and from  $10s.$  to  $11s.$  for common quality.

AMMONIA SALTS.—*Sal-ammoniac* has been reduced  $2s.$  per cwt., the present quotation for first quality being  $33s.$ , and for second quality  $31s.$  per cwt. *Sulphate* is steadier; Beckton,  $7l. 7s. 6d.$ , Beckton terms,  $7l. 6s. 3d.$ , London makes,  $7l. 10s.$  to  $7l. 11s. 3d.$  per ton.

ANTIMONY is dearer. For crude *Japanese*  $20l.$  per ton has been paid on the spot, and the c.i.f. quotation is  $20l. 10s.$  per ton. It is said that there has been a good deal of buying on the part of manufacturers lately, and that the supplies are scarce at present. At auction 50 cases were bought in.

ASAFETIDA.—At to-day's auctions 59 cases imported last year were offered. They were first placed in auction six months ago, when the limits were slightly higher than those declared to-day. Nothing was sold, medium grey and pinky block and loose dry and sandy mixed being bought in at  $57s.$ ; medium softest brown loose and mixed and broken block at  $47s. 6d.$ , and fair block, mostly grey, slightly pinky mixed, at  $60s.$  per cwt. For the last-named quality the price, upon arrival, was  $55s.$  per cwt. During the week some sales have been made privately, and we understand that for a few cases of fine quality  $75s.$  per cwt. has been paid, leaving the seller a profit of  $25s.$ , since he purchased the goods about six months ago.

BALSAMS.—In *Peru* balsam trade seems to have been quiet since the recent movement, although prices are firmly held. At auction to-day 6 cases were shown and bought in at the nominal price of  $8s. 9d.$  per lb. *Tolu* steady and very scarce in fine qualities; 6 cases of rather ordinary quality from New York were bought in to-day at  $2s. 6d.$  per lb. For 2 casks fair *Canada* balsam no bid was made even at  $11d.$  per lb. *Copaiba* barely steady. At auction no bids were made, and 5 casks good bright *Maranhão* were bought in at  $2s. 3d.$ ; thin bright reddish balsam, at  $2s. 2d.$  per lb.

BENZOIN.—*Palembang* gum was poorly represented. Of one parcel of 43 boxes 10 sold at  $30s.$  per cwt. for good quality, which was a fair price. Of *Siam* benzoin 11 cases were shown, of which two sold without reserve at  $51s.$  per cwt. for common small dark old lump. A parcel of medium to bold reddish almonds, in block, was bought in at  $17l.$  per cwt. Of *Sumatra* gum 154 cases were placed on sale; 54 of these sold at extremely high prices for fine quality, which was strongly competed for, while ordinary gum was very cheap. The following were the figures obtained:—Fine pale, well-packed, almondy seconds,  $11l.$ , falling to  $10l. 15s.$  per cwt.; good almondy seconds, slightly false-packed sides,  $8l. 10s.$ ; ordinary seconds, false packed, a few almonds in centre,  $5l.$  to  $5l. 2s. 6d.$ ; ordinary thirds, very false-packed and brown borders, but fair centres, from  $84s.$  down to  $59s.$  per cwt.

BUCHU.—Long narrow leaves continue to be held at  $6d.$  per lb., but there does not seem to be any demand for these at present. Round leaves are firm, 9 bales selling at  $3d.$  to  $3\frac{1}{2}d.$  for good green, and  $2\frac{1}{2}d.$  for ordinary yellow quality.

CALUMBA still remains scarce, high prices being asked for

fine selected root. At auction 24 bags of fair sorts, out of a parcel of 54 bags, sold at 23s. 6d. per cwt.

**CAMPOR (CRUDE).**—No business is reported privately this week, but the market is distinctly easier. Holders offer at lower rates, although they are unable to effect business at present. For *Formosa* camphor, May-June shipment, the quotation varies from 85s. to 90s., and for *Japan*, same shipment, from 95s. to 97s. 6d. per cwt., c.i.f. At to-day's drug sales 99 cases of fair but rather damp *Formosa* camphor sold at 91s. per cwt.

**CANELLA ALBA.**—Twenty packages of good bright pale, but rather broken bark sold cheaply to-day at 21s. per cwt.

**CANNABIS INDICA** remains in fairly good demand, good green stalky chips were bought in to-day at 3½d., and 10 robbins of very fair quality sold at 3d. per lb.

**CARDAMOMS.**—The supply at to-day's auctions was the largest we have seen for some years, one broker alone offering no fewer than 333 boxes. The total amounted to 571 packages, of which 479 found buyers. With such an excessive supply, a reduction in price was a matter of course. At the beginning of the auctions prices declined about 4d. on good pale qualities, and from 6d. to 9d. per lb. on medium and ordinary grades; but afterwards there was a slight recovery. The following prices were paid:—*Ceylon-Mysore*: Medium to bold full pale round, 3s. 3d.; medium, 3s. to 3s. 1d.; medium to bold pale long and round mixed, 2s. 9d. to 2s. 10d.; medium, 2s. 6d. to 2s. 8d.; small yellow, 2s. 2d. to 2s. 4d.; very small medium pale, 2s.; ditto yellow, 1s. 9d. to 1s. 10d.; brown speckly and split, 1s. 8d. to 1s. 9d.; common dull down to 1s. 6d. per lb. *Mangalore*: Good yellow medium to bold CCC mark, 3s. 1d.; smaller ditto, 2s. 11d. to 2s. 9d.; bold MMM, 3s. 5d.; medium, 2s. 11d. to 2s. 9d. per lb. Seed sold at from 2s. 7d. to 2s. 9d. per lb. for fair brown, and at 2s. per lb. (subject) for common quality, which is about 5d. lower.

**CINCHONA.**—At the monthly cinchona sales held on Tuesday, 1,921 packages were offered, comprising 557 African, 374 Java, 610 East Indian, 133 South American, 85 Ceylon, and 162 bales Cuprea bark. There was a fair demand, but holders showed little disposition to sell, except at an advance, which buyers would not concede. As a result, only 1,021 packages (mostly African, and Javan bark) sold at the same prices as those paid at the London April auction, the average unit being fully ¾d., and in some cases ¾d. per lb. The following figures represent the approximate quantities of bark purchased by the principal buyers:—

	Libs.
Agents for the Mannheim and Amsterdam works	38,221
Agents for the American and Italian works	36,740
Agents for the Brunswick quinine-works	31,581
Messrs. Howards & Sons	24,717
Agents for the Frankfort and Stuttgart works	22,980
Brokers for the Imperial quinine-factory	8,430
Various buyers	7,506
Total quantity sold	170,175
Bought in or withdrawn	160,228
Total quantity of bark offered	330,403

The following was the range of prices:—**CEYLON CINCHONA**: Good natural *Hybrid* stem chips, 2½d.; renewed *Officinalis* chips and shavings, 2½d. per lb. **EAST INDIAN CINCHONA**: Original *Red* chips and shavings, 1½d.; drug-gists' quill, fair but partly split, 2d. to 4½d. per lb. *Officinalis*, fair natural chips and shavings, 2d. to 2½d.; renewed ditto, 2½d. to 3½d. per lb.; fair to good rich *Ledger* stems, 2½d. to 5½d. per lb. **JAVAN CINCHONA**: Dusty *Hybrid* branch chips, 4½d.; stem chips, 6d.; *Ledger* chips, 2½d. to 4½d. per lb. **WEST AFRICAN CINCHONA**: *Succirubra* quills, partly broken and thin, 2½d. to 3½d. per lb. **SOUTH AMERICAN CINCHONA**: Five bags *Soft Colombian* bark, of very ordinary quality, sold at ½d. per lb.; and 162 bales **CUPREA BARK** of old import were withdrawn.

**CREAM OF TARTAR.**—There has been no further decline in the price, but the market still remains weak. Best white *French crystals* are quoted at 78s., powder at 80s. to 81s. per cwt.

**CBOTON-SEED** is decidedly more plentiful, 19 bags in three lots being offered at to-day's auctions; the whole of

this was bought in at from 70s. to 100s. per cwt. for fair dark mixed quality, not a single bid being made. It would seem as though prices must come down pretty soon.

**CUBEBS.**—The demand shows no signs of revival, and prices remain low. Privately some sales have been made at 28s. per cwt. for good sifted berries without stalk; 20 bags of this quality were bought in at auction at 30s., a bid of 26s. being rejected. Another lot of 25 bags good clear bluish grey berries without stalk was bought in at 26s. per cwt.

**CUTTLEFISH-BONE** remains scarce, and the price still has an upward tendency. At auction to-day 12 mats of fair pale, partly broken, bone realised 3½d. per lb.

**DRAGON'S-BLOOD.**—The demand is excellent and the supply small, especially so far as fine quality is concerned. At auction to-day 29 cases were offered, but only 3 sold, with strong competition, at an advance of fully 30s. per cwt., good bright cake realising 13l. 2s. 6d. per cwt.; slightly duller ditto, 12l. 7s. 6d. per cwt. Fair bricky dragon's-blood in reed was bought in at 8l. 10s. per cwt.; dull cakes at 6l. 10s. to 7l. per cwt. There has been an importation of 13 cases from Singapore by the *Nestor*.

**ERGOT OF RYE** remains neglected. Eleven bags wormy and dull mixed *Spanish* ergot sold cheaply at 4d. per lb. Another lot of 19 cases *Spanish* is held at 9d. per lb. for fine clean, and at 6d. per lb. for common wormy. *Russian* ergot was in small supply, and bought in at nominal prices.

**GALLS.**—There has been a steady demand for blue *Persian* galls at full prices, 50s. per cwt. being paid for good quality. Green and white galls are scarce, but of the last-named variety some parcels are known to be on the way.

**GAMBOGE** is again about 10s. lower, but much of the supply offered to-day was of very poor quality. Of 28 packages offered, 14 sold at 7l. 5s. per cwt. for ordinary, partly drossy mixed pipe; and at 5l. 10s. for common dull pipe with very little colour.

**GENTIAN-ROOT** remains extremely firm and scarce. Sales of good *French* root have been made on the spot at 32s., and there are further buyers, but the available supply is extremely small. At auction 5 bags of gentian-powder were bought in at 35s. per cwt.

**GLYCERINE.**—The German manufacturers have reduced their prices by 6s. per cwt. all round. It is said that this is in consequence of the low quotations which are ruling for the crude article. The current price for double-distilled, sp. gr. 1.260, may now be put at from 57s. to 67s. per cwt. Second-hand holders are weak.

**GUARANA.**—Eleven cases have been received this week from Para by the *Hubert*. Nothing was offered at auction.

**GUM ACACIA.**—Some holders of *Soudan* gum have given way and accepted lower prices, but there is little demand, and the quotations are more or less nominal at from 50s. to 80s., according to quality. At to-day's auctions a bid of 56s. per cwt. was refused for 5 bales of fine pale *Aden* sorts. A lot of small pale siftings sold at 20s. per cwt. Several parcels of picked *Turkey* gum were offered and bought in with the exception of two packages of fair small grains for which 6l. 15s. was accepted. It is said that good pale picked gum sells at 10l. 10s. per cwt. Three packages *Turkey* sorts sold, fine pale soft at 80s. subject, and good yellow sorts at 70s. per cwt.

**HONEY.**—*Jamaican* is in good demand, at rather better prices. Eighteen packages offered to-day were all sold—thick pale candied to fair, partly liquid, at from 29s. to 26s. 6d.; rather dirty brown and dark at from 25s. 6d. to 24s. 6d. per cwt. A parcel of 47 cases white candied *Italian* honey was bought in at 37s. 6d. per cwt. Of *Queensland* honey, good clean brown, 10 cases, of two 56-lb. tins each, sold at 28s. per cwt. A parcel in small tins was bought in at 42s. per cwt. *Californian* honey is quiet, at 40s. per cwt. for fine quality. Best *Chilian* is held privately for 30s. per cwt., and sales of good quality, somewhat off-colour, have been made at 27s. At auction 40 barrels fair thick yellow were all bought in at 31s. to 32s. per cwt.

**IODINE.**—We are informed that the Scottish Alkali and Acid Company are not only makers of iodides, as stated in our editorial note of last week, but that they manufacture iodine itself from kelp. The company claim that, last year,

they were the largest manufacturers of iodine in Scotland, and this season they intend, we hear, to increase their output by 50 per cent.

**IPECACUANHA.**—At to day's auctions a supply of 55 bales of *Brazilian* root was firmly held at the recent advance. The market was rather irregular, however, and in some cases the sales effected (14 bales were disposed of) were somewhat below the prices that have been paid privately. But, compared with the last auctions, *Brazilian* root was from 9*d.* to 10*d.* per lb. dearer. For good London-picked root a bid of 6*s.* 8*d.* per lb. was refused; fair sound, natural, partly thin, sold at 6*s.* 1*d.*, slightly damaged at 5*s.* 9*d.* to 5*s.* 10*d.* per lb. Of *Colombian* (*Cartagena*) root 30 packages were offered, of which only 4, rather damaged, sold at 4*s.* 3*d.* per lb., an advance of fully 6*d.* on the last sale-rates. The statistical position of ipecacuanha in London (public warehouses only) on May 1 is given as follows:—

	1897	1896	1895	1894
	Pkgs.	Pkgs.	Pkgs.	Pkgs.
Stock of <i>Brazilian</i> ...	366	543	679	504
" other kinds ...	64	44	69	158
Imported (January 1 to April 30):—				
<i>Brazilian</i> ...	178	224	214	197
Other kinds ...	97	63	63	94
Delivered (January 1 to April 30):—				
<i>Brazilian</i> ...	259	265	306	369
Other kinds ...	54	68	86	64

Fifteen packages have arrived by the *Nile* from Buenos Ayres this week.

**MENTHOL** remains dull, at 5*s.* 9*d.* per lb., c.i.f. terms. The same price is quoted on the spot, but we hear in one quarter that sales have been made on the spot this week at 5*s.* 10*d.* per lb.

**MUSK.**—No first pile *Tonquin* pods were offered to-day, and privately the market seems to be quiet, although firm. Of third pile pods 9 tins were shown. For 7 of these, dull, badly trimmed, damp pods, thick skin and underskin, a bid of 21*s.* 6*d.* per oz. was made, and will be submitted. The broker offered to sell at 22*s.* per oz. outright at the sales.

**MYRRH.**—The market shows no improvement. The only lot sold to-day was a small parcel of good coarse siftings, for which 48*s.* per cwt. was paid. Fair native picked myrrh was bought in at 90*s.*, and for a lot of good pale picked 5*l.* per cwt. was suggested as the price, but it could not be obtained at auction.

**OIL (COD-LIVER).**—There is a somewhat firmer tendency in the market, but this appears to be less pronounced than in the producing country itself. Sales of good new non-congealing oil have been made at 68*s.* per barrel, c.i.f., but since then 70*s.* has also been paid. We believe that at the last-named figure several high-class brands are still to be had, although there is a general tendency on the part of the agents to quote higher prices. At auction to-day 20 casks of *Norwegian* oil were bought in at 67*s.* 6*d.* to 70*s.* per barrel.

**OILS (ESSENTIAL).**—All kinds of essential oils are quiet, and practically the market is without alteration. At auction 10 cases of 54-per-cent. *Cassia* oil were sold at low rates—viz., 3*s.* 10*d.* (one lot 3*s.* 9*d.* per lb.). For one case, of which the analysis was not stated, 7*s.* 6*d.* per lb. was required. Eleven cases *Oil of cinnamon* were bought in at from 8*d.* to 1*s.* per oz., and 5 cases unworked *Star-anise* at 7*s.* per lb. Of *Citronella* oil, 18 cases of *Winter's* brand were bought in at 2½*d.* per oz., and for 10 cases of *Fisher's* brand 2*d.* is said to be the price. A parcel of *Fisher's patchouli* oil was bought in at 1*s.* 2½*d.* per oz.; 4 cases *Risdonia Eucalyptus* at 1*s.* 6*d.* per lb.; and 6 cases of *Portuguese eucalyptus* oil of fine quality, which have long been offered before, at 2*s.* 1*d.* per lb. A parcel of 42 cases of *Lemongrass* oil announced for sale was not ready in time to be offered. Three cases of D. Battoglini's *Palermo* essence of lemon are held for 3*s.* 3*d.* per lb. Sales of *Citronella* oil were made at the end of last week at 1*s.* 1*d.* per lb., c.i.f., London. *Cajuput* oil remains scarce. In Amsterdam the nominal value of good quality is about 2*s.* per bottle, but the demand is only moderate.

**OPIUM.**—*Soft-shipping* kinds of *Turkey* opium are rather neglected, and very little business can be reported. Prices remain from 11*s.* 9*d.* to 13*s.* 6*d.* per lb. for good to fine, and

from 8*s.* 6*d.* up to 10*s.* 6*d.* for ordinary fair quality. In *Persian* the demand for fine quality continues, but high prices are now asked. Best grades are held for 10*s.* 6*d.* to 11*s.* per lb.; medium to good from 9*s.* 6*d.* to 10*s.*, and common down to 8*s.* per lb. There is a good enquiry for *Turkish Manufacturing* opium, which is extremely scarce; fine *drug-gists'* kinds have been sold at 10*s.* per lb., and there is very little to be had below 9*s.* 3*d.* to 9*s.* 6*d.* per lb. In fact, it is said by wholesale druggists of long experience that they have never known the market to be so bare of opium of this class.

**ORRIS.**—Is still tending downwards. At auction 17 bags of fine bold bright *Verona* root marked SF, which might stand for "selected *Florentine*," realised only 39*s.* per cwt. The first lots of this same parcel when sold a couple of months ago realised 54*s.* per cwt. Ordinary *Verona* root was bought in at 41*s.* 6*d.* per cwt. nominally, a bid of 30*s.* being rejected. Four serons good *Mogadore* orris were bought in at 37*s.* We hear from Italy that the market is again lower, and that no interest whatever is shown in the article. Picked *Florentine*, in casks, offers at 51*s.* to 52*s.* per cwt. f.o.b.; sorts at 47*s.* per cwt., f.o.b.; best *Florentine* at 40*s.*; and mixed quality at 32*s.*, f.o.b.

**POTASH-SALTS.**—*Prussiate* is firmly held at the recently advanced quotation. The Beckton price is now 5½*d.* per lb. net. *Cyanide* dull of sale, at 9½*d.* per lb. for 98 per cent. to 99 per cent. for export. *Chlorate* lower. For delivery during the present month 3½*d.* per lb. would be accepted.

**QUICKSILVER** is firmly held. The importers still ask 7*l.* 7*s.* 6*d.* per bottle, and second-hand holders do not offer below 7*l.* 7*s.* per bottle.

**QUININE.**—There has been at length a movement in this article, and since Tuesday prices have advanced fully ½*d.* per oz. On that day about 20,000 oz. of a second-hand German bulk changed hands at 8½*d.* per oz., and for a parcel of 5,000 oz. 8¾*d.* was afterwards paid. On Wednesday further sales were made at that price. The total quantity sold during the week is estimated at about 55,000 oz. It is said that for German bulk of recent import 9*d.* per oz. has been paid, but we have not been able to confirm the truth of that statement, and are inclined to think that even to-day there would be sellers at 8¾*d.* per oz. The market is very firm, however. At the drug-sales 2 cases (of 10 100 oz. tins) of *Taillandier's* quinine were bought in at 10*d.* per oz. The limit is 8½*d.* per oz. The following are the current quotations of the makers:—*Howards'*, in 1 oz. vials, 11*d.* to 1*s.*, in bulk, 9*d.* to 10*d.*; *Whiffen's*, in 1 oz. vials, 11*d.*, in bulk, 9*d.*; *Pelletier's*, in 1 oz. vials, 1*s.* 4½*d.*; *Taillandier's*, in bulk, 8½*d.*; *Zimmer and Jobst*, in bulk, 9*d.*, the other German brands in bulk, 8½*d.* per oz. The import of cinchona alkaloids into Germany in 1896 was 4,000 kilos, against 6,200 kilos in 1895; the export, 196,200 kilos, against 159,000 kilos in 1895. Of cinchona-bark the imports amounted, in 1896, to 3,466,100 kilos, and the exports to 130,900 kilos.

**RHUBARB.**—The stock is small, and holders are extremely firm. Buyers, however, seem to have lost courage, and at to-day's auctions it was difficult to get offers. Seventy-two cases were offered, but only 12 sold. *Shensi*, medium to bold round, good coat and pinky fracture, 2*s.* 3*d.* to 2*s.* 6*d.*; good sound pickings (subject), 1*s.* 5*d.* per lb. *Canton*, medium to bold round, good coat and fracture, 1*s.* 1*d.* to 1*s.* 2*d.*; ditto flat, 1*s.* to 1*s.* 1*d.* per lb. *High-dried*, flat, medium, fair coat, even pinky fracture, 1*s.*; fair flat, but wormy, 10½*d.*; wormy pickings, 9*d.* to 9½*d.* per lb.

**SAFFRON.**—There has been rather a sudden change in the position of this article as described by some of the importers. Last week the market was dull and prices were generally tending lower, but on Wednesday some of the agents quoted higher rates, fine "extra super" *Valencia* being now held for 42*s.*; good quality for 40*s.*; and ordinary for 39*s.* per lb.

**SARSAPARILLA.**—Genuine *Grey Jamaica* root is again from 1*d.* to 2*d.* per lb. dearer; 17 bales were offered and sold with strong competition at from 2*s.* to 2*s.* 2*d.* per lb. for slightly damaged to sound. Twenty bales *Native red Jamaica* sold at from 1*s.* to 1*s.* 3*d.* per lb. for good bright, slightly damaged, and from 9*d.* to 11*d.* per lb. for badly damaged. For 5 bales *Honduras* a bid of 1*s.* per lb. was refused; another parcel of *Honduras* was bought in at 1*s.* 3*d.* per lb.

**SENNA.**—The supply of *Alexandrian* senna is rather in

excess of the requirements, but fine qualities are somewhat scarce. Bold picked root has been sold privately at 1s. per lb., while for siftings 3½d. per lb. has been accepted. At auction 96 packages *Alexandrian* were almost all brought in. Of 123 packages *Tinnerelly* about 52 sold at from 2½d. to 3½d. for medium to good bright greenish, and from 1½d. down to ½d. per lb. for fair small and medium yellowish to very common leaves.

**SHELLAC.**—At the end of last week the market was flat, with few sellers of TN second *Orange* for May delivery at 60s., and for August delivery at 61s. per cwt. At auction, on Tuesday, 1,447 cases were offered, and met with a very slow demand, only 380 finding buyers at a decline of 3s. per cwt. on the last auction rates for good second *Orange*. Blocky qualities, however, were fully 5s. to 6s. lower. The following prices were paid:—Fine second *Orange*, good pale, 66s. per cwt.; cakey, reddish, 62s. to 63s.; good seconds, bright to partly cakey, 62s. to 60s.; fair TN bright free curly to reddish and cakey, from 57s. down to 51s. per cwt.; dark-red colour, free, 49s.; livery and blocky, from 50s. down to 48s. per cwt. Twenty-four cases common to fair *Button* lac sold at from 36s. up to 43s. per cwt. The market closes dull, with sellers of TN *Orange* for May-August delivery at 58s. to 59s. per cwt.; 100 cases of June-August shipment have sold at 56s. per cwt., c.i.f.

**VANILLA.**—Firmly held. The bulk of the small supply of 85 packages found buyers at full prices: *Mauritius* and *Seichelles*, good 6 to 8 inches, 26s. 6d. to 28s.; 4½ to 7½ inches, 21s. 6d. to 25s.; mouldy, of various lengths, 3s. 6d. to 11s. 6d. per lb. Two tins *Ceylon*, 5 to 7½ inches, sold at 19s.; mouldy at 14s. 6d. per lb. For 6 tins of fair *Madagascar* 22s. to 25s. per lb. was paid; and a fine parcel of 9 tins *Tahiti* beans was bought in at 21s. per lb.

**VARIOUS DRUGS.**—Three cases of *Anatto-paste* from Ceylon, which have been offered before, were again bought in to-day at 3s. per lb. Of *Areca-nuts* 70 bags were shown and bought in. *Coca-leaves* are neglected, 55 bales, including some fair pale *Truxillo* leaves, were offered to-day, and bought in at 6d. to 8d. per lb. The demand for *Chamomiles* is slow; 3 bales small to medium flowers of rather dull colour were bought in at 55s. to-day. *Civet* dull of sale; some ordinary quality was bought in at 25s. to 26s. per oz., nominally. *Cascara sagrada* is neglected, 250 bags from San Francisco, including some of good appearance, were bought in at 14s. 6d. per cwt. One package of ordinary thin brown *Cascarilla* shavings sold cheaply at 20s. per cwt. *Colocynth*: There is now a plentiful supply of this drug, but no demand is shown, at any rate not at public sale. Several parcels of fair to good *Turkish* apple were bought in at 1s. 2½d. to 1s. 9d. per lb., and a parcel of *Spanish* apple was also bought in. For 5 cases seedy siftings a bid of 7d. per lb. is to be submitted. *Condurango*: Ten bales of damaged *Condurango-bark*, of the usual dull quality, sold at from 2d. to 3d. per lb. Twenty cases good bright *Gum elemi* of nice aroma were bought in, 25s. per cwt. being suggested as the price. For Zanzibar kino 12s. per lb. is nominally asked, and for 5 packages good Cochin kino from Bombay 15s. per lb. is the limit. A parcel of 202 bales dull Persian *Liquorice-root* sold readily to-day at from 7s. 6d. down to 5s. per cwt. *Lime-juice* is neglected; 3 hogsheads "refined" West Indian were bought in at 1s. 6d. per gallon. Two hogsheads new season's West Indian *Lemon-juice* were bought in at 1s. 5d. per gallon. *Orange-peel* was, as usual at the sales, in poor demand and a very large supply. Thirty-seven bags quarters from Tripoli sold at ¼d. per lb. (without reserve), subject to paying charges; and of another lot 3 bales of fair strips realised 5d. per lb. An 18-oz. box of fine pale *Ginseng* root sold cheaply at 6d. per oz. Two bales good Payta *Rhatania* were bought in to-day at 7½d. per lb. *Patchouli-leaves* are in large supply, 52 bales from Penang being offered at auction. One parcel, very stalky and dusty, was catalogued "without reserve," but had to be taken out, as no bid could be obtained. The other, representing fair quality, is said to be held for 6½d. per lb. Ten bags of *St. Ignatius* beans (an article which has been very plentiful lately) were offered to-day. A bid of 3d. per lb. was refused for them, and the lot was bought in at 6d. *Seammony-root* has been sold in small quantities at 32s. 6d. per cwt. At auction to-day several parcels of root were

bought in. *Squills* remain quiet. A parcel of 62 bags announced for sale was reported to have been sold privately. *Tamarinds* remains neglected. Some nice fresh *West Indian* were bought in to-day at 10s. per cwt., and fair *East Indian* at the same price. Eight cases fair black slightly crystallised *Pura Tonca-beans* sold at 1s. 6d.; duller quality at 1s. 5d. per lb., which was rather cheap.

**WAX (BEES').**—All varieties are in good demand at steady prices. Twenty-six packages *Jamaican* wax sold at 7l. 17s. 6d. to 8l. 10s., according to quality; 6 packages *Australian* brought from 5l. for common to 7l. per cwt. for fine pale grey and yellow. Forty-two mats *Madagascar* realised 6l. to 6l. 10s. per cwt. for good quality; 93 packages *Zanzibar*, 6l. 5s. to 6l. 7s. 6d. per cwt. Fifteen packages dark brown mixed *East Indian* sold at 6l. 5s. to 6l. 7s. 6d. per cwt. All the bleached *East Indian* wax was bought in.

### The Market in Heavy Chemicals.

A fairly good demand continues for heavy chemicals generally, and a somewhat firmer tone is to be noted all round. Shipments to all the Baltic and northern ports are now being made, and this has had the effect of giving more tone to the market. *Caustic soda*, especially of higher strength, is in brisk demand, and stocks being low, values have a hardening tendency, although as yet no distinct advance has been made. *Chlorate of potash* is lower, May quotation now being 3½d. *Prussiate of potash* is firmer and higher, general quotations being 5½d. per lb. Beckton has advanced to 5½d. *Prussiate of Soda*, 4d. *Bichromates of potash and soda* in brisk demand at convention prices. *Soda crystals* firm. *Bleaching-powder* keeps moving steadily. *Cream of tartar* flat, and quotations are again lower: powdered 80s. to 81s., and crystals 78s. Recovered *Sulphur* maintains a firm position, but is being offered on slightly easier terms, 4l. 15s. per ton being accepted for good orders. *Sulphate of ammonia* steadier: Beckton, 7l. 7s. 6d.; Beckton terms, 7l. 6s. 3d.; Leith, 7l. 11s. 3d. to 7l. 12s. 6d.; Hull, 7l. 10s. to 7l. 11s. 3d.; London, 7l. 10s. The exports from Leith last week amounted to 480 tons. *Nitrate of soda* steady and unchanged. *Barium products* firm and in heavy demand, especially highest-strength *Carbonate*, which is scarce and has an upward tendency. *Sugar of lead*, white and brown, quiet. *Nitrate of lead* dull. *Benzols* dull and lower—90 per cent., 1s. 10d.; 50 per cent., 2s. 1d. to 2s. 1½d. *Sal ammoniac* lower; first white, 33s.; and second white, 31s. *Solvent Naphtha* firm; 95 per cent., 1s. 8½d. to 1s. 9d.; 90 per cent., 1s. 7½d. to 1s. 8d. *Crude Naphtha*, 30 per cent., 1s. 1½d. to 1s. 2d. *Carbolic acids* in steady request. Crystals, 34-35, 7½d. to 7½d.; 39-40, 7½d. to 8d. *Crude*, 75 per cent., 2s. 9d.; and 60 per cent., 2s. 3d. to 2s. 4d.

### The Liverpool Drug-market.

Our Liverpool correspondent, writing on May 12, says that there has been more movement in the *Castor oil* market for the week just passed, considerable sales of good seconds Calcutta have been made at 3½d., first-pressure French at 3d. to 3½d., Bombay at 2½d., and Madras at 3½d. per lb., with strong advices from the East. Holders talk of yet better prices in the near future. *Beeswax* is in good request, and sales are being made at the late rates, some River Plate just arrived having sold in part at 6l. 15s. per cwt. *Carnauba wax* is steady, 50 bags of good grey selling at 39s. per cwt. *African Ginger* has eased off for the week. Sales have actually been effected at 15s. for a large line in store, and some new has been sold ex-quay at 16s. 6d. per cwt. *Cochin ginger* of fine quality has also been disposed of in quantity, at 29s. per cwt. *Chillies*, of the Sierra Leone description, have sold at 32s. 6d. per cwt. for fair quality—fine bright red are still held for 35s. to 37s. 6d. per cwt. *Canary-seed* is lifeless, and sales of good bright Turkish have taken place at 26s. 6d. to 27s. 6d. per quarter. *Potashes* are firm at 19s. to 19s. 6d. per cwt. *Acacia gums* of the Soudan description are again moving off slowly, the stiffer attitude of sellers having had no appreciable effect on the demand, but at the same time there is very little gum offering, and quotations are steady at about 62s. 6d. to 65s. for fair hard quality. Medium grades are inquired for, and holders are steady. *Sulphate of copper* is easier, at 16l. 10s. per ton. *Cream of Tartar* steady, at 82s. per cwt. for first white of full strength.

*Sarsaparilla*: Four bales Honduras at auction sold at 9½d. per lb. Teneriffe *Cochineal* is very firmly held at 1s. 1d. to 1s. 1½d. per lb. *Kola* nuts are steady at the rates lately ruling, but the absence of arrivals has rather checked business in the article. Chilean *Honey* of the new crop Pile I. sold from the quay at 22s. 6d. to 24s. per cwt. All grades of honey are steadily firm.

#### The Hamburg Drug-market.

Our Hamburg correspondent writes, on May 11, that business is still very dull, and there is only very little doing in the drug-market at present. *Agar-agar* is firm at 280m. per 100 kilos. *Antimony* also shows a better market, 40m. per 100 kilos, being asked for crude. *Anise* is a little firmer; holders ask to-day 28m. per 100 kilos. for Russian seed. *Cape aloes* is unchanged, quiet at 45m. to 46m. per 100 kilos. *Balsam Peru* is quiet at 16½m. to 16¼m. per kilo. *Balsam copaiba* unchanged at 4.50m. per kilo. for genuine Maracaibo. *Balsam t-lu* is firm at 5½m. per kilo. *Cassia lignea* shows a quiet market; new cassia is offering at 75m. per 100 kilos. ex warehouse, while fine old cassia is still held for much higher prices. *Cinnamon chips* for shipment are offering at equal to 2½d. per lb., c.i.f. Hamburg. *Refined camphor* is steady for spot delivery at 295m. per 100 kilos.; August-September delivery at 275m. per 100 kilos. *Ergot of rye* unchanged at 95m. to 100m. per 100 kilos. *Glycerine* lower; the prices have been reduced by 20m. per 100 kilos. *Gentian-root* is very firm and scarce at 56½m. to 57½m. per 100 kilos. *Galangal* is steady, at 45m. per 100 kilos. *Menthol* for spot delivery is quiet at 13m. per kilo. *Cumin-seed* is dull; Malta seed can be bought at 41m. per 100 kilos. *Lycopodium* unchanged at 265m. per 100 kilos. *Cevadilla-seed* very firm at 165m. per 100 kilos. *Quinine* is firmly held at 23m. to 24m. per kilo. *Quicksilver* very firm at 151m. to 152m. per bottle. *Cod-liver oil* is a shade firmer to-day; 1897 non-congealing oil is held for 68m. per barrel. White sweet *Seal oil* for spot delivery, 47½m. to 48m. per 100 kilos., but little offering for forward delivery just now. *Castor oil* is again quieter at 57m. per 100 kilos. for French of first pressing. Essential oils are quiet, and very little changed. *Peppermint oil* HGH, 6½m. per lb. *Citronella oil* at 265m. per 100 kilos. *Star-anise oil*, 15m. per kilo. *Spermaceti* quiet at 305m. per 100 kilos. for spot delivery, and 295m. for shipment. *Spirits of turpentine* steady for spot delivery at 44m. to 43½m. per 100 kilos. *Quillvia-bark* is a little easier at 29½m. to 30m. per 100 kilos. *Grey Carnauba wax*, 80m. to 85m.; medium, 115m. to 125m.; fine yellow, 145m. to 155m. per 100 kilos. *Japan wax* for spot delivery, 74m. to 75m., and 72½m. to 73m. per 100 kilos. to arrive; shipment from Japan, 68m. per 100 kilos.

#### [The Bergen Cod-liver Oil Market.

Our Bergen correspondent writes under date of May 8 that there has been a slight improvement in the Finnmarken fishery, but the result is still far from satisfactory. The Finnmarken returns up to date (millions of fish) were:—

1897	1896	1895	1894	1893
2.5	8	1.3	7.3	3.2

The cod-liver oil market in Bergen remains quiet, although the sales have slightly improved. The exports of oil from Bergen for the season are 2,750 barrels, against 2,045 barrels in 1896.

#### The Smyrna Opium-market.

Our Smyrna correspondent writes on May 4 that since the beginning of the month 20 cases *Current talequale* have been taken out of the market by American buyers, at the rate of 8s. 11s. per lb., selected kinds being held at from 9s. to 9s. 2d. per lb., at a firm market. The Americans are still buyers, and it is thought they will soon run up prices to 9s. 6d. per lb. for fair manufacturing. The sales during April in Smyrna amounted to 242 cases. The stock in Smyrna and the interior of Asia Minor is now calculated to be only 450 cases, and that at Constantinople 389 cases. It is pointed out that the Turkish markets at this moment represent a strange contrast to those of London and New York, which are reported to be very dull. The first opium of the new crop is now about to be gathered in the low-lying districts, and from everywhere it is said that the prospect is extremely good, and that the present year will give an exceptional yield of opium.



#### The By-laws.

Mr. C. J. Park (Plymouth) writes to protest against our comments on what we had published as his remarks on the by-laws at the recent quarterly meeting of the Plymouth Chemists' Association. Mr. Park, we find, was misunderstood by our reporter. When he said that the *Pharmaceutical Journal* cost 4s. 4d. per head, he was quoting from an article in that journal which gave that amount as the average before 1895. Our reporter seems to have understood him to have referred to the present time. We wish, therefore, to state that our criticism of last week, so far as it referred to Mr. Park, was founded on a misapprehension, and does not apply. At the same time we cannot help asking how the piece of ancient history which Mr. Park thinks good enough to quote from the *Pharmaceutical Journal* bears on the present controversy?

SIR,—Either Mr. Gascoyne or myself must be very dense. The meaning I wish to convey is this. In former balance-sheets of our Society we have been given simply the proceeds from sales and advertisements in the *Pharmaceutical Journal*. This, when read against the total cost of producing the journal, naturally shows a deficit, which has to be (and is) met out of the subscriptions of members. I have no desire to "pick and choose" which liabilities I would meet and which disown. What I wish is to make those who have incurred the liabilities meet them. "Does Mr. Eberlin seriously contend that members and associates are to pay no share of these various expenses?" asks Mr. Gascoyne. Certainly I do not so contend. I contend that all are to meet them, and at the proper time and place—viz., the examination-room (and this whether members or non-members in the sense in which we now apply those terms). "Upon what ground does he repudiate the School of Pharmacy?" &c., my interrogator goes on. On the plain ground that a well-managed school is necessary, and cannot be left entirely to chance private enterprise. We have a "school of pharmacy," in a broad sense, in connection with our own Nottingham Chemists' Association, and undertake pecuniary liabilities therewith.

As regards the advanced fee raising the price of labour, I do not care who thanks me for the statement. A man who is not very deficient in economic laws will see that this means an increased revenue whereby the chemist may meet it.

And now Mr. Gascoyne's last query, "where he finds the signs that registered chemists . . . approve of the advanced fee?" Over the length and breadth of the land, wherever an expression of opinion has been given, and most certainly in Nottingham. Mr. Gascoyne misstates (inadvertently, I know) the facts. Not seventy chemists were invited to attend, for we have not nearly so many members, as Mr. Gascoyne knows. There were twenty-nine members present (excluding a few non-members). Seven only voted a direct negative of the resolution proposed. Not a single absent member wrote expressing disapproval. Several wrote expressing their approval.

But I would particularly emphasise my statement regarding students. I come into frequent contact with our own local ones, thirty-three or thirty-four in number, and I have taken the trouble to ascertain their feelings on the matter. I find them just as I say, and they by no means thank their self-constituted champions.

I thank Mr. Gascoyne for the heartfelt sympathy with me with which he concludes his vain attempt to "plough the sands."

Yours very truly,

2 Chapel Bar, Nottingham,  
May 8.

A. EBERLIN.

P.S.—And what a commentary on all this is the newly-published balance-sheet!

SIR,—May I suggest that a candidate who presents himself for the Minor shall pay a fee of 5l. 5s. if he passes the same, but that before he can obtain his certificate he shall pay an additional 5l. 5s., and shall then become a life

associate (or, if he afterwards pass the Major examination, a life member) of the Society.

In this way we should be able to test the oft-repeated statement that "Unity is strength," which I am afraid we shall never be able to do in any other way. As regards failures, I should suggest that the fees should be as at present.

A MEMBER OF THE PHARMACEUTICAL SOCIETY.  
(116 19.)

[Can our correspondent conceive the possibility of the legislature compelling anyone to join and contribute to this or any other society?—ED. C. & D.]

SIR,—Mr. Gascoyne, in his reply to my criticism last week, proved exactly that which it was my desire to point out to him. He began by remarking that a ten-guinea article is of no more value than one costing five guineas, and applying this reasoning to the present case, concluded that the ten-guinea Minor certificate would be of no more value to the holder than the five-guinea one is now. Then in his reply to another correspondent, he admits that the price of qualified assistants will be raised, and tries to make capital out of the fact. The two statements flatly contradict each other, for if the assistant can claim a bigger salary after the Minor fee is raised than now, surely his certificate will be of more value to him. Q.E.D.

It is a very generous proposition on your correspondent's part to increase the annual subscriptions of members and associates to meet existing circumstances—that is, instead of each chemist bearing his own share of the burden, Mr. Gascoyne would have that burden placed on the shoulders of a select minority, himself excluded (though he would probably receive as much benefit as anyone from the 400 prosecutions last year). One can quite understand that Mr. Gascoyne does think chemists will "blindly follow" anyone to make such a proposal.

Yours faithfully,  
F. PILKINGTON SARGEANT.

[We have given both sides in this controversy a fair field, but it would be straining our impartiality to let Mr. Sargeant's misrepresentation of Mr. Gascoyne's argument pass. Mr. Gascoyne nowhere "admits" that the price of qualified assistants will be raised. Dealing with Mr. Eberlin, he says, "His contention that the advanced fee would raise the price of assistants is an argument for which his friends will scarcely thank him." Mr. Sargeant has apparently not grasped the rest of Mr. Gascoyne's argument, which was that the examinees pay for all the protection they get, and that the members of the Pharmaceutical Society not only do not pay a penny towards this, but do not even pay for the privileges they enjoy exclusively.—ED. C. & D.]

SIR,—May I suggest that you invite a post-card reply to a query *re* increase of the Minor fee?

I am, faithfully yours,  
Kingston-on-Thames, WM. G. CLARKE.  
May 7.

[We shall be glad to receive post-cards on the subject, but we do not propose to make any direct canvass of the trade on the subject. We are willing to submit to the evidence that the bulk of the opinion of chemists is against our view, but whichever way a post-card vote went could make no difference to the laws of arithmetic nor to the principles of justice.—ED. C. & D.]

#### The Council Election.

Mr. R. H. Bell, pharmaceutical chemist, Sunderland, sends us a copy of a letter he has sent to the Editor of the *Pharmaceutical Journal* commenting on the excuse he published last week for not inserting Mr. Glyn-Jones's letter on the election of members of the Council. The Editor stated that the *Pharmaceutical Journal* was not the place in which influence should be exercised upon the election in reference to matters upon which different opinions exist. Mr. Bell points out that this is not consistent with the Editor's practice in the past, and he mentions a few instances. On May 5, 1889, a letter, signed by Messrs. Bengier, Martindale, and others, was published asking members not to vote for Mr. Wills. On May 2, 1896, a letter from Mr. Clower,

Northampton, appeared, asking that votes should only be given to those who openly declared for the P.A.T.A.; and this year, on April 2 and April 10, Mr. Gostling and Mr. Keen have each been allowed to advocate particular views on the Council election. Mr. Bell says it looks as if the purpose was to swamp the P.A.T.A., simply because they aimed to remove some of the old members of the Pharmaceutical Council, who have done good scientific work, but who will not join hands with the movement now on foot to help to get better prices and a living profit for their less fortunate brethren. Those are not our friends, and do not deserve our support.

#### The Queen's Chemists in Manchester.

SIR,—Under this heading you publish in your issue of May 8 some statements which call for qualification. In justice to my colleagues on the Diamond Jubilee Contribution Committee, as well as to myself, I would ask your permission to say that you have been misinformed, or, at all events, told only half the truth.

I necessarily come into contact with a great many of our local chemists, but I am not aware that any "surprise has been occasioned," nor do I know why any particular surprise should be occasioned by the absence of Mr. Gibbon's name from our local subscription list, nor, for the matter of that, from anything emanating from or in connection with our local pharmaceutical association.

The council of the Manchester Pharmaceutical Association, representing the members, formed itself into a committee, and as Mr. Gibbon is not a part of that council, the absence of his name from this committee is explained. Power was taken, it is true, "to add to its numbers," and additions were made from among the manufacturers and representatives of wholesale firms, with a few of the leading chemists in outlying places, but it never occurred to any member of the committee (the council) to suggest any further additions from among City pharmacists. I am quite sure that no slight upon Mr. Gibbon was intended, and, as loyalty to the Queen is a strong point with every member of our committee, it is impossible that any slight was offered to Her Majesty.

My reply to the last sentence in the paragraph is a bare statement of fact. The committee was formed on February 19, and held its first meeting on March 4. On March 1—that is, three days prior to the first meeting—I called upon Mr. Gibbons, and asked him for a donation, and to allow his name to be added to the committee, both of which proposals he emphatically declined. Yet, notwithstanding, I sent him a notice convening the first meeting, and inviting his attendance, by the same post that every other notice was sent out, but, of course, Mr. Gibbons was not present. It was at this meeting that the first additions were made to our number and our officers appointed.

Some are wicked enough to suggest that any excuse will suffice when one wants to avoid a duty or a donation, but as I have just heard that Mr. Gibbons is sending twenty-five guineas direct to the Benevolent Fund, this certainly does not apply to that gentleman, and, I am pleased to add, the fund will be none the poorer because of this donation not passing through or to the credit of our local fund.

HARRY KEMP,  
Hon. Sec.

Manchester District Diamond Jubilee Contribution.

#### DISPENSING NOTES.

##### What is Tr. Quinine Co.?

Before ammoniated tincture of quinine became so fashionable the tr. quinine, P.B., was frequently dispensed and sold. It was generally described as compound tincture of quinine, but whence the co. I never learned. I should use the tr. quinine, P.B.

DISPENSER. (167/48.)

[This is, we believe, the common interpretation.]

##### Oleatum Zinci 5 per Cent.

SIR,—I should imagine your reply to "Ignorantia," May 1, surprises a good many. I have spoken to several about the prescription in question, and the unanimous opinion is that

half an ounce of a suitable basis—such as you suggest—containing 5 per cent. of zinci oleas, B.P., should be used. Perhaps you will favour with the reason for the method you suggest.

READING. (116/7.)

[Our reason is simple enough. Oleatum zinci, B.P., is 10 per cent., so a prescription for 5 per cent. seems to us to mean half the B.P. strength. The suggestion put forward that 11 gr. of the B.P. oleate should be used seems to us utterly absurd, considering that the ointment would thus contain 1.1 gr. of zinc oxide. What do other dispensers say about the matter?]

#### The Colour of Apiol.

SIR,—I was handed a prescription a few days since, which had previously been dispensed by a West-end firm, and was written by a well-known London physician, for "Apiol capsules, xxiv." I dispensed W—'s, but have had them returned, the patient saying that those supplied by the West-end firm were "light brown" in colour, whereas mine are green. I should like to know which was correct. Martindale says apiol is a "green, oily liquid," and, further, "a stearoptene in light, colourless, acicular crystals is also known as apiol."

Yours truly,

BOSTON. (112/43.)

[Apiol capsules as usually supplied are green, but a West-end firm supply a "red apiol"; it is just possible the patient received these on the first occasion.]

#### Phenol-and-Salol Pills.

SIR,—Can you inform me if it is possible to make a decent pill, and how, from the enclosed copy of prescription? I tried, but failed to do so, the ac. carbol. and salol liquefying. I added p. glycyrrh. and p. tragac. co., but to no effect; added more p. glycyrrh., and sent out in cachets. A reply in *C. & D.* will oblige.

Yours truly,

BROADACRE. (116/64.)

Ac. carbol.	...	...	...	gr. j.
Salol	...	...	...	gr. iiss.
Ext. nuc. vom.	...	...	...	gr. ½
Ext. opii	...	...	...	gr. ½

Ft. pil. tales xxiv. j. ter die c. cibos.

[Salol and phenol liquefy when mixed. In this case too much fluid results to allow of a pill being made by the ordinary means adopted in "pill-building"; but with care a good pill can be made as follows:—Melt a small quantity of gelatine base, add salol and phenol; pour this on the extracts, previously rubbed up with a small quantity of glycerine and water; mix quickly; allow to stand some time; finally, add liquorice and tragacanth to stiffen.]

#### An Unusual Prescription.

SIR,—Last week I had the following prescription to dispense:—

Bromidia 1 flacon.

Prendre une cuill. à soupe au moment du coucher avec un peu d'eau.

It was written on the back of the doctor's card and signed by him. I explained to the patient, and his friend who accompanied him, that it was a very large dose, and he must be careful not to exceed it. In addition, I labelled the bottle "Poison." Yesterday a local medical man called on me, and reported that the patient had taken so large a quantity as to almost poison him, and suggested that I had been lacking in discretion in supplying a full bottle. He also said it was not wise to dispense, say, an 8-oz. mixture (tablespoonful dose) containing as an ingredient a poison that if taken in the aggregate would be sufficient to cause death. As I often get prescriptions of this description I should like your opinion, or that of your readers, on the questions involved, and also as to whether it is a common practice for doctors to order original bottles of bromidia.

Yours truly,

REX. (118/69.)

[It was wrong to label the bottle "Poison." The Pharmacy Act specially exempts medicines dispensed by prescription, and the inference is that the pharmacist shall use his skill and knowledge to see that patients are not poisoned. The next question is that of the dose. Undoubtedly this was quite unusual, and large enough to be risky, but there are cases in which ordinary doses of narcotics are worse than

useless—e.g., in *delirium tremens* the excitement is increased by such doses. "Rex" might have quietly ascertained in the present case whether the medicine had been taken before or not, and obtained sufficient information to justify him in departing from the letter of the prescription by directing a dessertspoonful by measure to be taken at bedtime. Clearly a tablespoonful, if measured with an ordinary spoon, was a probably fatal dose, and at the least would in the majority of cases cause highly alarming symptoms. The next question is that raised by the doctor—viz., that it is not wise to dispense a mixture containing poison sufficient in the aggregate to cause death. This is an absurd contention, and if enforced, dispensing would be at a standstill. As to a ruling in regard to action in these exceptional cases we can only say that no golden rule is possible; the pharmacist must always use his judgment in the interests of the patient and prescriber, and, failing the opportunity to consult the latter, any alteration dictated by safety should be noted on the prescription.]

#### An Alkaline-salicylate Mixture.

SIR,—Can you inform me why the following mixture should turn quite black with a black precipitate after standing about two days?—

Sodii salicylat.	...	...	...	ʒij.
Pot. bicarb.	...	...	...	ʒiij.
Aq. ad...	...	...	...	ʒviij.

Ft. mist.

Squire, I note, states it turns reddish, but this is like ink.

Yours truly,

A. W. TURNER.

[The salicylate must be a poor specimen. The colour varies with its degree of purity, the condition of the bicarbonate, and whether distilled or tap water is used. A proper salicylate with fresh bicarbonate and distilled water gives such a mixture as Squire says; but if a tap water is employed which happens to be contaminated with nitrogenous elements the colour is intensified, especially in presence of carbonate—which is generally abundant in stock solutions of pot. bicarb.]

### MISCELLANEOUS INQUIRIES.

We reply to our subscribers and their employes only; queries must, therefore, be authenticated by the name and address of the subscriber. When more than one query is sent write each on a separate piece

of paper. When a sample accompanies a query full particulars regarding the origin and use of the sample must be given, and the name of the querist should be placed on the sample. Queries are not replied to by post.

#### 110/42. W. J. D.—(1) Mist. Cinchonæ:—

Conf. rosæ	...	...	...	ʒss.
Dec. cinchonæ bullient.	...	...	...	ʒj.

Mix. In ten minutes strain, and add—

Acid. sulph. dil.	...	...	...	ʒiss.
Spt. myristicæ	...	...	...	ʒss.

Mix.

This is an old English preparation, and is perhaps what is meant by mist. cinchon. co. The London Charing Cross Hospital has a mist. cinchonæ co., consisting of ammon. carb. gr. iv., dec. cinchonæ ʒj. M. pro dose. (2) *Ferri Carb. Sacch. c. Manganoso.*—We cannot trace any reference to this, and therefore suggest the addition 1 part manganese sulphate to every 4 parts of ferrous sulphate, and a proportionate amount of carbonate of ammonia, following the B.P. directions for ferri carb. sacch.

111/14. *Far Niente.*—Gold Labels on Shop-rounds.—Use ordinary label-paste (from wheaten flour), pasting eight or more labels before sticking on the first one. Smooth it down; put on the second, and so on until the lot is put on. Paste another eight or more, and when all the labels are used up begin to size them with isinglass solution. When dry, varnish with a sandarac-and-benzoin varnish, or any label-varnish.

84/97. *Maranta*. — Glass-etching Ink for Rubber Stamps.—A mixture of barium or calcium fluoride with sulphuric acid is used for this purpose.

100/47. W. W. (India).—Branding Camels is something new for us, and we are somewhat at a loss to say what should be done to meet the conditions which you lay down, especially the object to tar and similar varnishes, that they can be washed off with turpentine. Why not try a strong decoction of the marking-nut (*Anacardium occidentale*), which, no doubt, you can obtain locally? A 1-in-8 decoction will serve, thickened with tragacanth. First wash the spot with a solution of copperas 1 oz. to 1 pint, then apply the marking-solution with a brush. We thank you for your expressions of appreciation, and are glad to know that you find the *C. & D.* so useful and pleasurable in your far-away home.

93/69. *Derfta*.—Poultry-spice.—The sample which you send consists approximately of the following:—Ground rice 1 lb., ground lentils 8 oz., ground locust beans 4 oz., powdered cayenne  $\frac{1}{2}$  oz., sulphate of iron  $\frac{1}{4}$  oz. Mix. Directions: A 3-oz. packet (1*d.*) is sufficient to mix with the food for twelve fowls or pheasants, or for six turkeys or twenty chickens per day.

87/48. *Antiseptis*.—Medium Finishing-dressing.—The sample which you send is different from the articles which we have reported upon recently, and which were for dressing the soles, not the tops, of boots. Your sample is a preparation of shellac, borax, ammonia, and nigrosin, with, probably, a little methyl blue. Try the following plan to make a similar preparation :—Dissolve 2 oz. of borax in 10 oz. of water, and add  $1\frac{1}{2}$  oz. of ground shellac. Heat gently, and with constant stirring, until dissolved. Separately mix together oleic acid  $\text{ʒj.}$ , S.V.M.  $\text{ʒss.}$ , solution of ammonia  $\text{ʒi.}$ , and beat until the acid is saponified; then add 5 drops of oil of sassafras, 1 dr. of nigrosin on tannin black, and 5 gr. of aniline blue and 6 oz. of warm water. Dissolve by shaking or stirring, strain, and add to the shellac solution, and make up to 20 oz. You may have to modify the procedure, but the product should agree fairly well with the following description :—

This dressing is prepared expressly for the use of boot-and-shoe manufacturers in finishing up new stock, and for restoring old stock to its original fresh and new appearance. It renders the leather soft, and prevents it from moulding, does not scale off, or soil in handling.

**Directions for Use.**—Let the leather be clean and perfectly dry. Apply with a clean soft sponge or brush, giving a quick, easy motion, and allow the dressing to dry undisturbed.

This dressing will not work with gum tragacanth or any other mixture.

See that you use a soluble nigrosin, as aniline blacks vary much in that respect.

134/97. *Nunquam*.—Permanent Gold Enamel.—The varnish which you send is a solution of celluloid in acetate of amyl—about 1 in 30 or 40. This is now commonly used for gold paints.

101/39. *Ephedra*.—The Female-mixture which you send is not an extraordinary one. Each ounce dose contains  $\frac{1}{2}$  dr. of liquor ergotæ, the same of syrup and compound infusion of gentian (made from inf. gent. co. conc.). The mixture will doubtless be of value in treating amenorrhœa; but it should be noted that the sale of such articles is subject to the provisions of the Pharmacy Act, so far as the first part of the poison schedule is concerned.

102/33. *Willacææ*.—Skin-tonic :—

Tr. benzoin. simpl.	...	...	...	℥ss.
Aq. lavandulæ	...	...	...	℥ss.
S.V.R.	...	...	...	℥ij.

Misce et adde—

Glycerini ... .. 5j.

M.

The sample contains methylated spirit, or a little wood spirit. The lavender-water will give a perfume as near to the sample as we can suggest, but you may change that according to your own notion. You say that the "tonic" is "applied after washing, and that it makes the powder

adhere to the skin, which does not show after using it." That is owing to the glycerine and benzoin.

100, 72. **W. W.**—The principal constituent of the **Tonic-pill** is ferroso ferric carbonate, which is in combination with various vegetable extracts of a tonic nature.

106/39. *Gelatine*.—Senna (8), tea-siftings (3), broom-tops (1), and *Triticum repens* (1) seem to be the principal constituents of the Garfield's Tea. The figures in parentheses are the approximate quantities.

107/31. *X. Y. Z.*—*Dipsomania*-specific.—See the formulæ on page 208 of the current volume.

109/36. *Cantab.*—Vegetable acids lighten the colour of liq. rosæ dulc., but do not discharge it.

**111/47. Vinum.**—**Non-excisable** Ginger-wine.—You will find a formula for the essence in the *C. & D.*, November 21, 1896, page 751, and 2 oz. of that to a pint of thin syrup makes the wine.

99/16. *Beta*.—Straw-hat Varnishes.—See *C. & D.*,  
July 4, 1896, page 32. Furniture-cream.—See *C. & D.*,  
May 18, 1895, page 703.

Furniture-paste :—

Ceresine	...	...	...	...	3½ lbs.
Oil of turpentine	...	...	...	...	½ gall.
Resin	...	...	...	...	½ lb.
Vermilion	...	...	...	...	1 oz.

Melt the ceresine and the resin in the oil of turpentine by a gentle heat, and strain. When the mixture is becoming creamy, mix the vermilion with a little of it, and add to the bulk.

102/56. *Haustus Ferri*.—**Blaud's Pills**.—You rather exaggerate the importance of having the ingredients of these pills interact in the alimentary canal. That is already provided for in capsules, tablets, and bipalatinoids; and most of the pills now made have the larger proportion of the ingredients unchanged.

102 43. *II. II.*—Black Enamel.—Sec *C.* & *D.*, September 19, 1896, page 471.

108, 48. *Devoniensis*.—**Bromidia**.—See the DIARY, page 264.

108/34. *B. & S.*—Medicated Wines.—*C. & D.*  
DIARY, page 487. Medicated Wine-essences.—*C. & D.*,  
January 30.

108/46. *J. C. H.*—It is better to adopt a specific *nom de plume* rather than invert your initials into somebody else's. You will find full information regarding preparation for the Minor, books, &c., in our last Educational Number, September 4, 1896.

109/43. *A. J. S.*—**Vin. Cocæ** (non-excisable).—The Board of Inland Revenue require that this wine should contain at least  $\frac{1}{2}$  gr. of cocaine per oz., with a sufficiency of extractive. If you add cinchona to it we expect that they would then treat it as a quinine wine, and require 1 gr. of alkaloidal salt per oz. A mixture of  $1\frac{1}{2}$  oz. ext. cocæ liq. (0.5 per cent. alkaloid), 6 gr. cocaine hydrochlorate, and  $18\frac{1}{2}$  oz. port wine, gives a preparation acceptable by the Board of Inland Revenue. Every retailer who makes his own preparation must submit his formula and a sample to the local I.R. supervisor for approval before selling the wine without licence.

109/70. *Ajax*.—Artificial Teeth are made of a special kind of porcelain.

110/47. *Subscriber*.—Herb-beer Extract.—See *C. & D.*, February 8, 1896, page 240.

103/44. *Photo-mount.—Showing and Storing Mounts.*—My way (writes *Pharmaceutical Camerist*) is to collect together samples of every kind of mount I stock. On the front of each is marked the retail price per dozen, hundred, &c. In the case of dark mounts a label is stuck on. These are then put together, according to size, in portfolios, and when a

customer inquires for mounts he is given a set of the size required to choose from. I have three complete sets ready as a convenience during the busy season. Some of my chemist friends keep their samples stuck in a scrap-book, and although this prevents the samples getting mislaid, it is not so easy to judge the quality and thickness of the card. For keeping stock together I have a separate box for each kind of mount. For sizes up to cabinet I use the wooden parcel-post boxes made by Glover, Hatcham Saw-mills, S.E.; for larger sizes empty soap-boxes. On the end of each box are placed particulars of retail and cost price, description, and where purchased. When possible a mount is fastened on by tinctacks, so that the contents are seen at a glance. Each mount is given a number, by which it is known, in stock-book, and when a kind is running out it is entered in the want-book by its number.

97/38. *Stereo* has a stereoscopic camera, which can be converted into a half-plate camera, and inquires whether one of the stereoscopic lenses will cover the half-plate. It is quite possible that the lens will cover a half-plate; at least, if a moderate-sized stop is used. We should make a temporary cardboard front for camera, and try before cutting the extra lens-board.

101/34. *T. F. W.* wants to Reduce a Panel Photograph to Half-plate, and inquires what the distances will be between lens and plate, and lens and photograph. When reducing the size of a photograph it should be remembered that the greater distance is between lens and photograph, and the lesser between lens and plate. To find the distance between lens and photograph add one to the number of times (linear measurement) the photograph is to be reduced, and multiply by the focus of the lens. To find the distance between the lens and plate divide the product of the above calculation by the number of times of reduction.

107/65. *G. S. E.*—The following formula for Hydroquinone Developer will suit your label:—

No. 1.				
Hydroquinone	...	...	...	gr. 60.
Sodium sulphite	...	...	...	gr. 150.
Aqua ad	...	...	...	oz. 5.
No. 2.				
Sodium hydrate	...	...	...	gr. 50.
Potassium bromide	...	...	...	gr. 50.
Aqua ad	...	...	...	oz. 5.

For developing a half-plate take 2 dr. of each and make up to 20 dr. with water.

107/52. *J. M. C.*—(1) **Matt Black** for woodwork is usually made by mixing drop black with gold size and turpentine or sandarac varnish. (2) **Combined Toning and Fixing Bath**.—There was a formula for this in *C. & D.*, February 20, 1897; also one in 1896 *DIARY*. The following (Eastman's) is different from both the above:—

*Stock Solution A.*

	Oz.
Sodium hyposulphite	...
Potash alum	...
Water	...

Dissolve, and add borax 2 oz. dissolved in water 8 oz. Let stand overnight, and decant.

*Stock Solution B.*

Gold chloride	...	15 gr.
Lead acetate	...	64 gr.
Water	...	8 oz.

Do not filter.

For use mix 8 parts Solution A with 1 part of Solution B. The prints are immersed in this bath without previous washing. Temperature of bath must not exceed 50° F.

107/4. *T. B.*—(1) You can get retouching done by Mr. Wilfred Emery, 8 Dyne Road, Brondesbury, N.W. The charges depend on size of head. (2) "The Art of Retouching," by J. Hubert, 1s. (Hazzell, Watson & Viney), will suit you. (3) The *Pyro-soda Developer*, *THE CHEMISTS' AND DRUGGISTS' DIARY*, 1896, will keep indefinitely if to Solution A you add 30 gr. metasilphite of potash in place of the nitric acid.

## INFORMATION WANTED.

*The Editor will be obliged for replies to the following from any who can furnish the information.*

118/24. Address of British and Foreign Drug Company, makers of Dr. Ren's lung and cough specific.

115/38. Who are manufacturers of gluten-bread?

115/40. Makers of covered pots, mortars and pestles, and other earthenware goods?

117/32. Ammonium bitartrate and potassium bisulphate (for use in baking-powders): where obtainable?

112/51. Paraffin-wax, melting at or about 145° F.: where obtainable?

## Coming Events.

**Tuesday, May 18.**

Dinner on behalf of the Benevolent Fund of the Pharmaceutical Society at the Hotel Cecil, at 6.45 for 7 P.M.

*Royal Photographic Society*, 12 Hanover Square, at 8 P.M. "Notes on the Working of the Photo-Aquatint Process, and on some of the Apparatus used," by Mr. T. Huson, R.I.

**Wednesday, May 19.**

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, W.C. Annual General Meeting at 12 noon, for receiving the annual report of the Council and financial statement. Thereafter a Special General Meeting to receive the proposed amended by-laws. Notices of the following motions have been given. (1) To be proposed at the Annual General Meeting by Mr. James Mackenzie: "That this meeting of the Pharmaceutical Society of Great Britain is satisfied that great improvements in the constitution, powers, and working of the Society are required, in order to provide adequate protection to its Members and Associates, securing also greater protection and safety to the public." Resolves—"That until some beneficial change has been effected constitutionally, no alteration in the by-laws is called for at the present time." (2) To be proposed at the Special General Meeting by Mr. A. C. Wootton: "That for the words '11 to 24 of Section X.' shall be substituted the words '11 to 16, and 18 to 24 of Section X.,' and that for the new By-law 17 the existing By-laws 16 and 17 shall be substituted."

*Royal Microscopical Society*, 20 Hanover Square, W., at 7.30 P.M. There will be an exhibition of specimens of injections and other objects, by Mr. Ernest Hinton. *Society of Arts*, John Street, W.C., at 8 P.M. "London Water-supply," by Professor Percy F. Frankland.

**Thursday, May 20.**

*Chemical Society*, Burlington House, at 8 P.M. Papers: "The Theory of Osmotic Pressure and the Hypothesis of Electrolytic Dissociation," "Molecular Rotation of Optically Active Salts," and "Heats of Neutralisation of Acids and Bases in Dilute Aqueous Solution," by Mr. Holland Crompton. "The Platinum-Silver Alloys: their Solubility in Nitric Acid," by Mr. John Spiller. "A Comparative Crystallographical Study of the Normal Selenates of Potassium, Rubidium, and Calcium," by Mr. A. E. Tutton.

**Friday, May 21.**

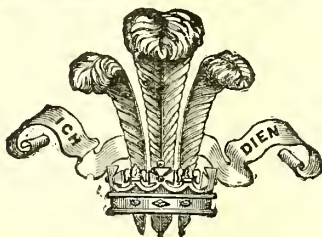
*Royal Institution*, Albemarle Street, W., at 9 P.M. Lord Kelvin on "Contact Electricity of Metals."

Notice is inserted in our coloured supplement of the examinations of the Institute of Chemistry to be held on July 20. We refer those interested to the announcement for full particulars.

20 HIGHEST AWARDS.

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Soap Makers  
by Appointment to



H.R.H.  
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RETAIL PRICES.

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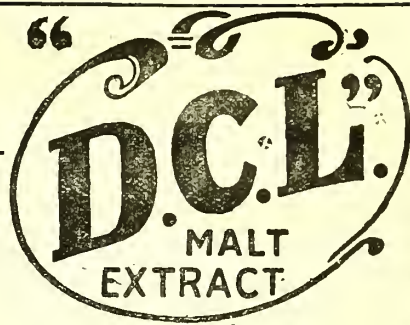
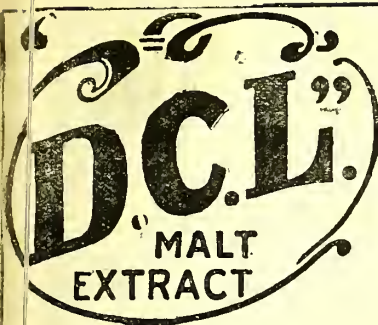
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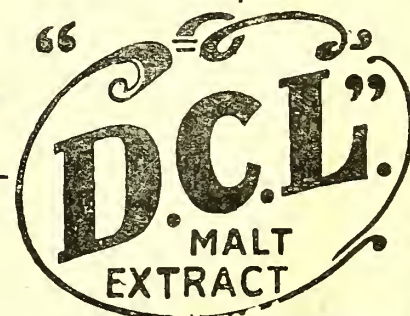
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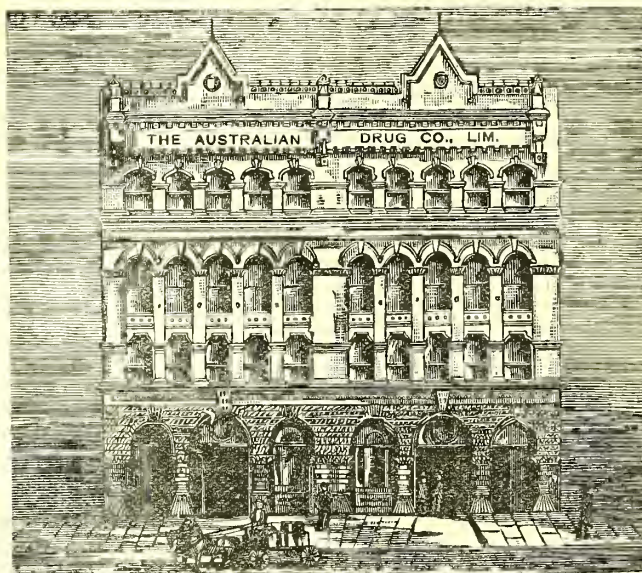
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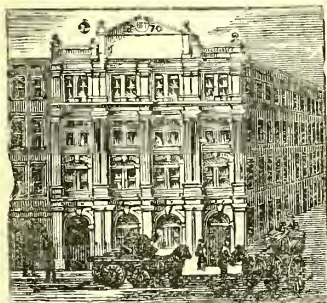
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 is slightly alkaline, exhibiting as it does a very mild cathartic action. Both preparations are readily resorbed, and seem to be of equal value in all cases where they ought to be exhibited; an agreeable and pleasant taste recommends this preparation to even the most fastidious of patients.

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It is a fact that the different compounds of Cod-liver Oil with iron, &c., of the trade, or even of those of the different Pharmacoepias, have such a disagreeable taste that the patients only try to take them, but rarely continue with them for any length of time.

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is indicated in all cases of serophulosis. Cod-liver Oil thus combined achieves its greatest triumphs, especially in the erethic form of serophulosis. Iodine and iron augment the pharmacodynamic action of Cod-liver Oil. Splendid results were also obtained with the iron-manganese Cod-liver Oil in cases of chlorosis. One tablespoonful of the preparation taken three times a day immediately after food caused the chlorotic symptoms to disappear. All the patients who showed a great dislike to Cod-liver Oil readily took Dieterich's preparations, owing to the agreeable and pleasant taste that characterises them.

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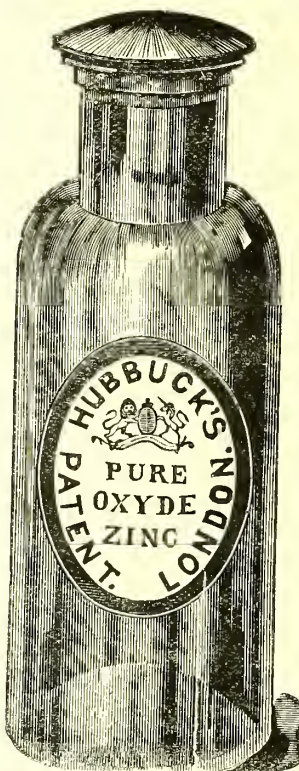
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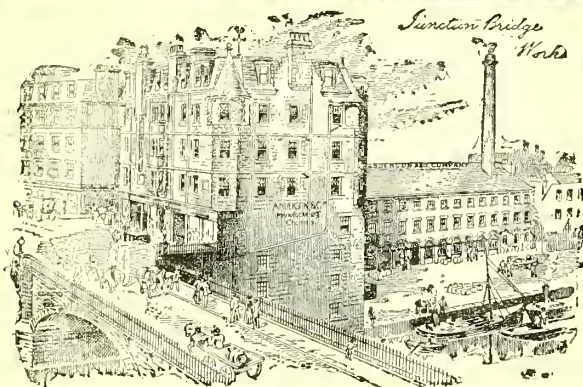
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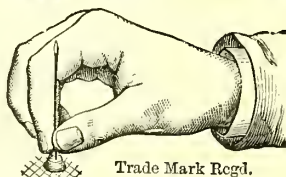
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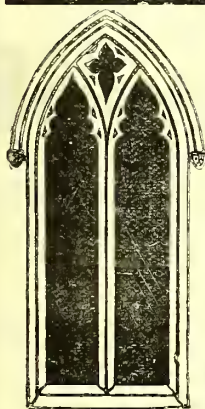
we wish to state that the amount is one-eighth ( $1/8$ ) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth ( $1/64$ ) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

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5, 10, and 15 % CARBOLIC  
Antiseptic and Deodorising  
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Bags and Casks free.

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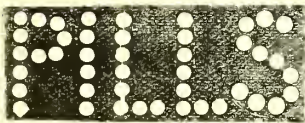
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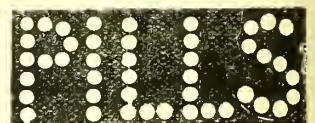
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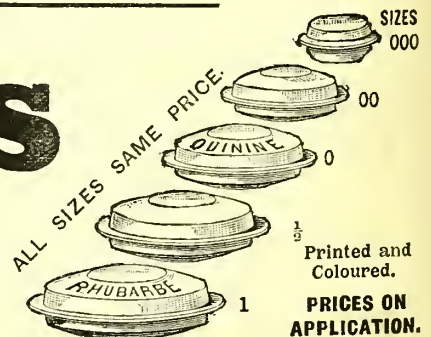
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In 1-gross metal-capped bottles, 52/- per gross.

Little Aperient or Liver Granules, in metal-capped tubes (40 in each), coated white, 30/- per gross.

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	Pulv. Sapo. Hyspan ...	aa, iv.		
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" 247.	Ol. Pulegii ...	gtt. 1/2		
	Pil. Aloes et Ferri ...	gr. iv.	6d.	5d.

#### QUININE PILLS.

" 250.	Quininæ Sulph. ...	gr. i.	8d.	7d.
" 251.	" " ...	gr. ij.	1/2	1/-

#### PERMANCANATE OF POTASH PILLS.

" 242.	Potass. Permang. ...	gr. i.	6d.	5d.
" 243.	" " ...	ij.	9d.	8d.

### FLEXIBLE GELATINE CAPSULES.

Bals. Copaibæ, min. 10 ...	8/6 per 1,000; in boxes containing 36, 5/6 per doz.
Blaud's = two pills ...	13/-
Cascara Sagrada = 1/2 drachm Liq. Ext. ...	12/6
Compound Senegæ ...	14/-
Copaibæ, Cubebæ, and Santal. ...	22/-
Creasote, min. 1 ...	8/6
" " 2 ...	11/-
Guaiacol, " 1 ...	12/6
" " 2 ...	14/-
Ol. Santal. Flav., min. 10 (English warranted) ...	32/-

**SPECIAL RATES TO LARGE BUYERS.**

# DR. SCOTT'S BILIOUS & LIVER PILLS.

The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

## A GOOD PILL and GOOD PROFIT.

1/1½ size	...	...	...	...	Wholesale Price, 10/- per dozen.
" "	...	...	...	...	Minimum Retail Price, 1/- „ box.
2/9	...	...	...	...	Wholesale Price, 24/- „ dozen.
" "	...	...	...	...	Minimum Retail Price, 2/6 „ box.

The proprietors will be obliged if Chemists will report all cases of Cutting to

**THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,  
2 and 3 STONECUTTER STREET, E.C.,**

who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to  
173 Seymour Place. London. W.

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**GOODALL BACKHOUSE AND COMPANY**

7 to 15 WHITEHORSE ST  
SOVEREIGN ST & VICTORIA ROAD  
**LEEDS.**

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**MANUFACTURING CHEMISTS & WHOLESALE DRUGGISTS,  
DRUG & SPICE GRINDERS,  
Patent Medicine Dealers, Druggists' Sundriesmen,  
TIN CANISTER MAKERS.**

PROPRIETORS OF  
**YORKSHIRE RELISH & GOODALL'S HOUSEHOLD SPECIALITIES.**

PRICE LISTS OF DRUGS, PATENT MEDICINES, AND PACKED GOODS ON APPLICATION.  
Net Cash Prices Quoted for Wholesale Quantities. Inquiries Solicited.

# “EDME” PURE MALT EXTRACT

*RICHEST IN DIASTASE. PURITY & KEEPING QUALITIES GUARANTEED.*

THE LANCET says:—“This preparation proved to be a highly concentrated and active malt essence. It possesses a rich malty flavour, and acts **powerfully** upon starch, **converting it rapidly into maltose**. It is, therefore, well adapted for use as an aid to the digestion of starchy foods, whilst furnishing also important food constituents.”

THE BRITISH MEDICAL JOURNAL says:—“It is of pale amber colour and good consistency. When tested with gelatinised starch it converted **FIVE TIMES ITS OWN WEIGHT IN FIVE MINUTES** at a temperature of 100° F. This result shows that the Extract has a **very high diastasic power**, and it therefore would be extremely efficacious as a medicinal agent where the use of an aid to the digestion of amylaceous food is indicated.”

THE PHARMACEUTICAL JOURNAL says:—“This preparation is one which is not as well known to the retail chemist as some that could be mentioned, but examination of it shows that it **possesses claims which entitle it to extended patronage**. The result of the test proves the extract to be of **UNUSUALLY HIGH DIASTASIC VALUE**, and it is equally satisfactory in other respects.”

Samples on application to the  
**ENGLISH DIASTASIC MALT EXTRACT CO., LTD.**  
**MISTLEY, ESSEX.**

**LOFTHOUSE & SALTMER,**  
**MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.**

Manufacturers of Granular Effervescent Preparations. We shall be glad to give specially favourable quotations, and send samples of our superior Nos. 1, 2, and 3 qualities of **CITRATE OF MAGNESIA**.

Importers of Cod-liver, Castor, and Olive Oils; Extra Super Essence of Lemon and Bergamot, Otto de Rose, and all



Essential Oils; Valentia Saffron; Vanillas; Fruit Essences; Carmine, Aniline Dyes; Bees' Wax, &c., &c.

MANUFACTURERS of Very Superior Flexible Gelatine Capsules of Balsam Copaiba, Cascara Sagrada, Castor Oil, Cod-liver Oil, Santal Oil, and Bland's Pill Capsules, equal to 1, 2, and 3 pills. Samples and Lowest Quotations per 1,000, or in Boxes for Retail, will be sent on application from either the Wholesale or Retail Trade.

# COD LIVER OIL

**“HENRIKSEN & CO.'S” Brand.**

*Guaranteed Pure. Very Finest 1897 Lofoden Non-freezing.*

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“HENRIKSEN & CO.” are actual Manufacturers, & were awarded Gold Medals at the Tromsø Exhibitions in 1870 and 1894.

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THE ACTIVE PRINCIPLE OF ALOES.

MANUFACTURED BY THE DISCOVERERS—

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"The uniformity in strength of Aloin, the smallness of its dose and the certainty of its action, should commend it to the favourable consideration of all medical practitioners."—*Vide* Dr. Wm. Craig's investigations respecting our Aloin, published in the *Edinburgh Medical Journal* for May, 1875.

Edinburgh Address—21 Duke Street. London Address—12 Worship Street, E.C.  
New York Office—20 Cedar Street: DILLON & CO., Agents. [3]

## READ THE FOLLOWING LETTERS

*They Speak for Themselves.*

Newcastle, March 8, 1897.

GENTLEMEN,—I notice your Ad. in the *C. & D.* for Saturday last. Please send me a copy of your Price-list, &c. With reference to your offer regarding the saving you can give the trade, if your list is satisfactory I will give you an opportunity of verifying the same.

Yours truly,

Newcastle, March 11, 1897.

GENTLEMEN,—Your Price-list and Samples to hand. I must honestly confess your prices are really an eye-opener; if the goods are as satisfactory in quality as in price, I shall be pleased to do a good trade with you. Please send on the enclosed trial order at your earliest convenience, and oblige,

Yours truly,

Newcastle, March 27, 1897.

GENTLEMEN,—I reply to yours, I have pleasure in stating that I am perfectly satisfied with the goods I have received; the quality is quite equal to what I have previously had (and I have always been particular in buying the best of everything), and you are quite within bounds in stating that your prices are from 25% to 50% below the usual charges. If you continue to give the same satisfaction, I shall give you my entire trade in the lines you carry, which, though perhaps not a very big item with the retail chemist, your offer to pay carriage on small lots makes it worth any chemist's while to remember you for these goods. Nowadays, when there is so much competition to meet, one must watch the buying end closely, as you state in your Ad.

I am, Gentlemen, yours truly,

This is the Grist of over 100 Letters  
we have lately received.

Send your Name and Address, and we will put you  
in a position to say the same.

**BROOK, PARKER & CO.,** WHOLESALE  
BRADFORD. DRUGGISTS,

Chemists' "Own" Specialities.

**BLEASDALE, LIM.**  
**YORK.**

WHOLESALE CO-OPERATIVE  
Managed by WRITE FOR PRICE LIST.  
DISTRIBUTORS & FOR CHEMISTS.

**CLARKE'S**  
**WORLD FAMED**  
**BLOOD MIXTURE**  
**THE GREAT**  
**BLOOD PURIFIER.**

The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

Counter Bills and Posters, with Name and Address also Show Cards, on application. Printed matter supplied in any Language for Foreign Agents.

**CAUTION.**—Immediate proceedings will be taken against all persons pirating the Trade Mark, "Blood Mixture" (Registered No. 3,275), Labels, Wrappers, Bills, or Advertisements, or in any way infringing the rights of the Sole Proprietors,

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## SCRUBB'S CLOUDY FLUID AMMONIA

### MARVELLOUS PREPARATION.

Refreshing as a Turkish Bath.  
Splendid Cleansing Preparation for the Hair.  
Allays the Irritation caused by Mosquito Bites.  
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Of all Chemists, Etc.

Invaluable for Toilet Purposes.  
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Cleans Plate and Jewellery.  
Price 1s. per Bottle.

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**BUY THE BEST**  
**OIL**  
**PUMP**  
AND SAVE  
**OIL, TIME, MONEY.**  
**THOUSANDS IN USE.**

This is a representation of our "WILCOX" NEW SEMI-ROTARY PATENT PUMP, with Improved Taper Barrel Attachment. It is easy to work and simple in construction, and is admitted to be the best article in the market for Pumping Paraffin Oil and all kinds of Liquid from barrels or tanks into other receptacles.

We hold a Large Stock, and can give Prompt Delivery.

Write for full particulars and prices of The "Willcox New Semi-Rotary" Patent Oil Pumps to

**W. H. WILLCOX & CO.**

34 & 36 Southwark Street,

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Testimonials from the most prominent teachers in the United States.

Testimonials from the most prominent teachers in the United States.

**BOWDLEAR'S FLOOR WAX.**

Pulverised. For Dancing Floors. Is not white. Will not ball on the feet. Will not soil clothes. All ready. Anybody can apply it. The floor must be clean and free from oil. Sprinkle, and the dancers will do the rest. Put up in pound packages, in cases of 35 pounds. One pound is sufficient for a floor space of 10,000 square feet, and if not wasted will be found to go four times as far as anything else on the market. No dust is another feature in its favour.

SAMPLES SENT ON REQUEST.

W. H. BOWDLEAR & CO., 149 Pearl St. Boston, Mass., U.S.A.

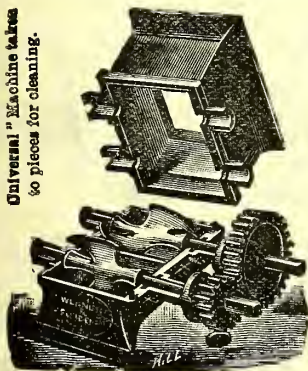
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### Kneading & Mixing Machine,

Used by all the largest Pill Makers.

SUITABLE ALSO FOR

ointments, POWDERS,  
AND MASSES  
of any  
Consistency.



Size 3, Type I., for 1-lb. Mass.

**PILL MASSING MACHINES.**

**PILL  
PIPERS,  
CUTTERS,  
ROUNDERS, COATERS,  
"SPIRAL BRUSH"  
POWDER-SIFTERS**

(WITH INTERCHANGEABLE SIEVES).

And every Accessory for the Pill Room.

**WERNER, PFLEIDERER & PERKINS (LIMITED),**

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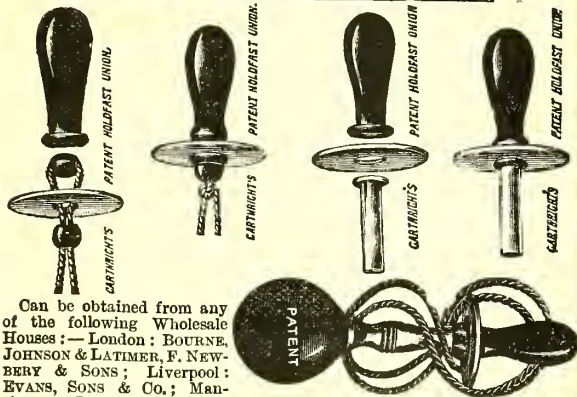
Works—43 Regent Square, Gray's Inn Road, W.C.

Contractors to the War Offices of all the Great Powers and other Governments.

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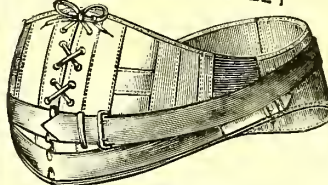
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**ACIFIERS FOR CHILDREN WHEN TEETHING,  
FOOD REGULATORS, BOTTLE UNIONS, &c.  
75 Ford St., Hockley, Birmingham**



Can be obtained from any of the following Wholesale Houses:—London: BOURNE, JOHNSON & LATIMER, F. NEWBURY & SONS; Liverpool: EVANS, SONS & Co.; Manchester: J. WOOLLEY, SON & Co.; Birmingham: SOUTHLAM, ROSS & BARCLAY; Sydney: ELLIOTT BROTHERS (LIMITED); Melbourne: FELTON, GRIMWADE & Co.

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Telephone No. Hop 4542.  
Telegrams—"Acme London."  
ESTABLISHED 60 YEARS.

**SPECIAL FEATURE SPECIAL ORDERS BY RETURN.**

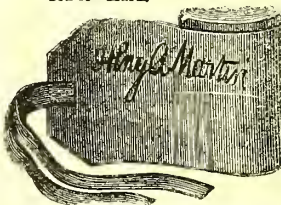
NEW SAMPLES ON VIEW AT

Victoria House, Albion Place, Blackfriars Bridge, London.  
Steam Factories—Nottingham and Carlton.

## DR. MARTIN'S PURE RUBBER BANDAGES.

Trade Mark

**For  
Varicose  
Veins, Ulcers,  
Eczema of the  
Leg, Swollen  
and Weak  
Joints.**



**CAUTION.**—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations*.

Complete Price List,  
Trade Discount, and  
Dr. Martin's  
Pamphlet post free.

No.	PRICES	Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm ..	6	2 1/2	3/8
3.	Thick .. ..	6	2 1/2	4/-
1B.	Thin, for leg below "knee" .. ..	10 1/2	3	5/8
1A.	Thick .. ..	10 1/2	3	7/8
8.	Thin, for leg and knee .. ..	14	3	7/8
7.	Thick .. ..	14	3	9/8
9B.	Thin, for leg and thigh .. ..	21	3	10/8
A.	Thick .. ..	21	3	13/8

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# TOOGOOD'S IMPROVED PATENT EARTHENWARE COVERED POTS

Are claimed to be the most Perfect and Convenient yet offered to the Trade.

ORDINARY THICKNESS—										
1 dr.	2 dr.	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	3	4	6	8 ounces.
<b>1/6</b>	<b>1/6</b>	<b>1/6</b>	<b>1/8</b>	<b>1/10</b>	<b>2/-</b>	<b>2/3</b>	<b>2/10</b>	<b>3/6</b>	<b>4/6</b>	<b>5/6</b> per doz.
THIN FOR DISPENSING—										
$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{2}$	2	3	4	6	8 ounces.		
<b>1/7</b>	<b>1/9</b>	<b>2/-</b>	<b>2/2</b>	<b>2/5</b>	<b>3/-</b>	<b>4/-</b>	<b>5/-</b>	<b>6/-</b>	<b>8/-</b> per doz.	

# STAINER'S CHLORIDE OF AMMONIUM INHALING PIPE.

REGISTERED No. 250397.

**The Cheapest and most Portable in the Market. 27/- dozen.**

# REID'S INFANTS' FOOD WARMER.

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## INJECTION BOTTLES

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Write for *ILLUSTRATED CATALOGUE*. There's something in it for every Chemist, and a great deal for most.

Removing shortly to larger premises at 91 and 92 GREAT SAFFRON HILL, E.C. Write there after June 21st.

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Every package bears this Trade Mark

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Please specify **MILNE'S** on orders not sent direct, to ensure getting Lord Lister's authorised preparations.

# ABSORBENT WOOL. GAUZE. LINT.

## OILED SILK. SURGICAL SPONGES. SHEETINGS. JACONETS. LIGATURES.

Enquiries from Chemists desirous of supplying local Institutions promptly attended to

# JOHN MILNE, Antiseptic Dressings Factory, LADYWELL, LONDON, S.E.

# THE SURGEON'S LINT,

## V.B. QUALITY.

The superior quality of Newsome's Absorbent Surgeons' Lint is universally admitted. The V.B. quality is quite pure and of great superficial area and exquisite softness. The C., D., E., and F. qualities are equally pure and absorbent; E. is stronger in fabric.

## NEWSOME'S BLEACHED ROLLED BANDAGES, 3 in., 2½ in., 2 in. Also SURGICAL ABSORBENT OPEN BANDAGES.

Specially Bleached & Grey Carded Cotton Wools, Absorbent & Bleached & Grey Waddings; also Sheet Waddings, Tow, &c.

THE TRADE SUPPLIED THROUGH THE LONDON AND PROVINCIAL WHOLESALE HOUSES, OR FROM

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# A PROFITABLE LINE!! EASILY HANDLED!!

## HEARN'S GLASS ILLUMINATION LAMPS

Telephone No. 72,  
Dalston.Will be greatly in demand  
on the occasion of**HER MAJESTY'S DIAMOND JUBILEE.**

Grape Pattern.

**MADE IN ENGLAND.**For Illuminating Private Residences,  
Public Buildings, Gardens, Fetes,  
Conservatories, Lakes, Hotel Gardens,  
Shop Fronts, Bazaars, Yachts, &c.The lamps are packed in Cases of 12, 24, 36,  
50, and 100, each Case containing an assort-  
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Pattern.**MADE IN ENGLAND.**The Lamps are wired ready for hanging, and  
are made in the following colours:—Amber,  
Dark Blue, Dark Green, Puce, Venetian,  
White, Ruby-Stained, &c.A very Handsome Show Card is  
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Tulip Pattern.

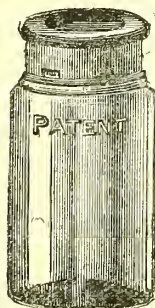
For full particulars as to Prices, Terms, &c., apply to S. MAW, SON & THOMPSON, Aldersgate St.; F. NEWBURY & SONS,  
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The only **REALLY PERFECT** Bottle for Vaseline, Pomades, Dry Powders, &c.**PRICES. Tall Series:—**Fitted with **STRONG METAL CAPS, CORK-LINED**; in Various Colours,  
very attractive in appearance:

1 oz. 11/-; 1½ oz. 11/6; 2 oz. 12/-; 3 oz. 15/-; 4 oz. 16/6 per gross, &amp;c.

Special Prices on application for Quantities.

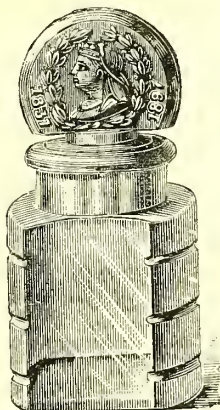
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FLINT GLASS BOTTLE WORKS.

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## The Victoria Commemoration SMELLING SALTS BOTTLE.

Assorted  
White, Blue,  
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Actinic  
Green.Sample Dozen  
sent  
on receipt of  
P.O.  
for 5s. 6d.**H. POTHS & CO.**  
CREECHURCH LANE, LONDON, E.C.Every bottle guaranteed to be  
perfectly stoppered.

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**THE NORTH LONDON GLASS BOTTLE COMPANY**

(I. ISAACS &amp; CO., Proprietors)

Beg to inform the Trade that they have made a further reduction  
in the price of their Bottles, as follows:—The **NEW SHAPE FLAT BOTTLES**, with rounded edges, plain  
or graduated—

6 & 4 oz. .. 7/6 per gross.	10 & 12 oz. .. 12/- per gross.
6 & 8 oz. .. 8/6 ..	16 .. .. 16/- ..

**WHITE MOULDED PHIALS**, plain or graduated Teaspoons—

½ oz. .. 3/6 per gross.	1½ oz. .. 4/6 per gross.
1 oz. .. 3/9 ..	2 .. .. 5/- ..

**PLEASE NOTE.**Six gross and upwards, assorted or otherwise, are carriage paid  
to any address in England; smaller quantities not carriage paid.**I. ISAACS & CO., Glass Bottle Manufacturers,**  
**106 MIDLAND ROAD, ST. PANCRAS, LONDON.**

Established 50 years.

Bankers—London and Westminster Bank.

**ABSOLUTELY  
RELIABLE.****TRADE PRICE  
MODERATE.  
SALE UPWARDS  
OF 4,000,000.****A. LAMBERT & CO'S  
SOLUBLE**

## QUININE TABLETS.

A soluble Quinine Pessary of proved absolute  
reliability. Upwards of 4,000,000 have been  
sold without a complaint of failure.We have a list of Special Articles for Chemists  
which command a ready sale at large profits.  
A Copy on application post free.**A. LAMBERT & CO.**  
Surgical Instrument and  
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# GLASS BOTTLES

FOR



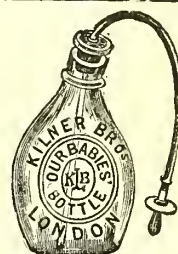
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FLAT (SQUARE & ROUND EDGES), OVAL, DIRECT SQUARE,  
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BEST AND ORDINARY QUALITY.  
ALL SIZES AND GRADUATIONS.

## FEEDING.

IN WHITE AND GREEN GLASS, WITH GLASS SCREW AND  
OTHER STOPPERS, AND WHITE, BLACK, OR BROWN  
RUBBER FITTINGS.

Buyers' Name put on Bottles free for certain quantities.

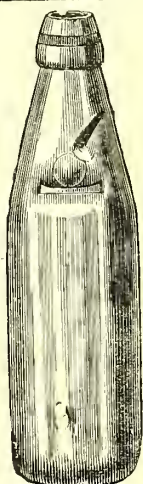


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CODD'S AND OTHER  
STOPPERED BOTTLES.

ALL SIZES.

EXCELLENT QUALITY.



## WATERS.

CORK BOTTLES IN ALL  
SHAPES  
AND SIZES.

PRICES MODERATE.

Revised Price List (Illustrated), containing full particulars of above and many other  
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No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON, N.

# GUEST & CO.

## CITY WORKS, CARRUTHERS STREET, MANCHESTER.

### MAKERS OF MEDICATED LOZENGES AND JUJUBES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

## THE NEW PERMANENT ENGRAVED WINDOW TABLETS

PRIZE MEDAL,  
International  
Health Exhibition,  
1884.

IN  
RUBY, BLUE, AMBER, AND  
OPAL GLASS.

AWARD OF MERIT,  
International  
Sanitary Exhibition,  
1881.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8×6 Ruby Tablets, £3 15s. Od.

**J. R. CORSAN,** THE LONDON SAND-BLAST WORKS, **58A GRAY'S INN ROAD, W.C.**  
TO PREVENT FRAUD DEMAND BUSINESS CARD FROM TRAVELLERS.

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ROUND, OVAL, SQUARE, or FOLDING, for the  
**DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.**

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL  
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### BOXES AND CASES FOR

Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post, Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

**ROBINSON & SONS, LIM.,** WHEATBRIDGE MILLS & CHESTERFIELD,  
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And 55 FANN STREET, ALDERSGATE STREET, LONDON.

# "THE LEICESTER"

## POROUS PLASTERS

### IN RUBBER COMBINATION.

7½ by 5 Inches. In Boxes of 2 dozen.

BELLADONNA, on Scarlet Felt	} Special Quality.	... per dozen	4/-
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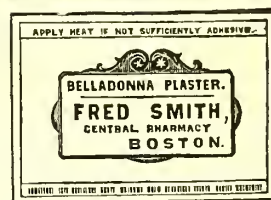
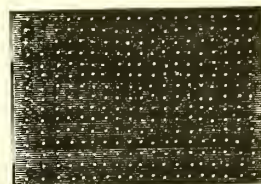
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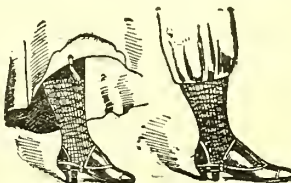
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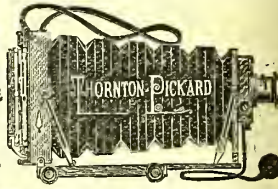
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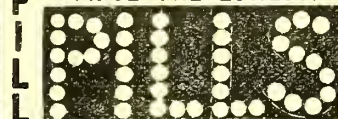
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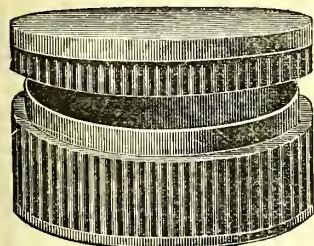
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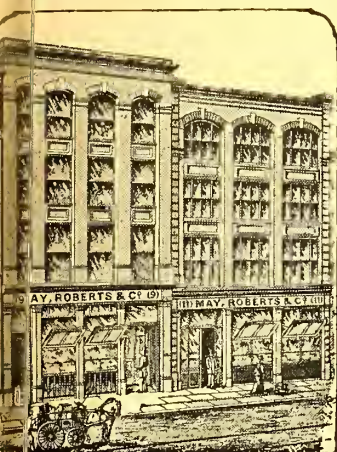
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